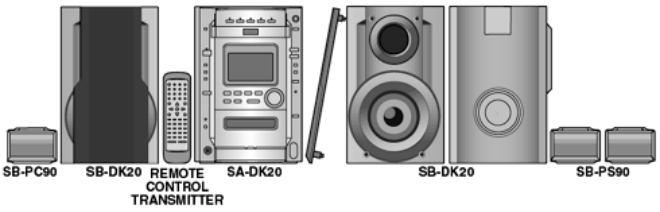
ORDER NO. MD0203054C1
A6

Service Manual

DVD Stereo System



SA-DK20

Colour
(S)... Silver Type

Area
(P)... U.S.A.
(PC)... Canada

TAPE SECTION :
AR2 MECHANISM SERIES
CD SECTION :
RAE1181Z-S TRAVERSE DECK SERIES

Specifications

■ AMPLIFIER SECTION	
Power Output	
THD 10%, both channels driven	
75 Hz	
Subwoofer	150 W (4 Ω)
1 kHz	
Front	35 W per ch (6 Ω)
Center	60 W (8 Ω)
Surround	30 W per ch (8 Ω)
Total power in stereo mode	
(Front and Subwoofer)	220 W
Total power in Home Theater mode	
	340 W
Power output	
THD 10%, both channels driven	
50 Hz - 120 Hz	
Subwoofer	130 W (4 Ω)
60 Hz - 16 kHz	
Front	28 W per ch (6 Ω)
100 Hz - 16 kHz	
Center	44 W (8 Ω)
Surround	25 W per ch (8 Ω)
Total power in stereo mode (10% THD)	
(Front and Subwoofer)	186 W
Total power in Home Theater mode	
(10% THD)	280 W
Input sensitivity	
AUX	250 mV
Input Impedance	
AUX	10 kΩ
■ FM TUNER SECTION	
Frequency range	87.9 - 107.9 MHz (200 kHz steps)
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	1.8 µV (IHF)
S/N 26 dB	1.5 µV
Antenna terminal(s)	75 Ω (unbalanced)
■ AM TUNER SECTION	
Frequency range	520 - 1710 kHz (10 kHz steps)
Sensitivity	
S/N 20 dB (at 1000 kHz)	500 µV/m
■ CASSETTE DECK SECTION	
Track system	4 track, 2 channel
Heads	
Record/playback	Solid permalloy head
Erasure	Double gap ferrite head
Motor	DC servo motor
Recording system	AC bias 100 kHz
Erasing system	AC erase 100 kHz
Tape speed	4.8 cm/s (1 7/8 ips)

Panasonic®

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Frequency response (+3 dB, -6 dB at DECK OUT)	
NORMAL (TYPE I)	35 Hz - 14 kHz
HIGH (TYPE II)	35 Hz - 14 kHz
S/N	50 dB (A weighted)
Wow and flutter	0.18 % (WRMS)
Fast forward and rewind time	Approx. 120 seconds with C-60 cassette tape

■ Disc SECTION

Disc	
DVD-Video	
8 cm/12 cm single sided, single layer	
8 cm/12 cm single sided, double layer	
8 cm/12 cm double sided, double layer	
(One layer per side)	
Video CD/CD	8 cm/12 cm
Video	
Signal system	NTSC
Output level	
Composite video	1 Vp-p (75 Ω)
S-Video Y	1 Vp-p (75 Ω)
S-Video C	0.286 Vp-p (75 Ω/NTSC)
Audio	
Sampling frequency	
CD	44.1 kHz
DVD	48kHz/96 kHz
Decoding	16/20/24 bit linear
Wow and flutter	Below measurable limit
D/A converter	Delta-sigma DAC)
Pick up	
Beam source	Semiconductor Laser
Wavelength	
DVD	658 nm
VCD/CD	790 nm

■ GENERAL

Power supply	AC 120 V, 60Hz
Power consumption	161 W
Power consumption in standby mode	
	0.25 W
Dimensions (W x H x D)	215.4 X 315 X 350 mm
	8 1/2” x 12 13/32” x 13 25/32”
Mass	(7.8 kg) 17.2 lb

■ SYSTEM

SC-DK20(P)	Music Center: SA-DK20(P)
	Front Speaker: SB-DK20(P)
	Surround Speaker: SB-PT93(P1)
	Sub woofer: SB-W20(P)
SC-DK20(PC)	Music Center: SA-DK20(PC)
	Front Speaker: SB-DK20(P)
	Surround Speaker: SB-PT93(P1)
	Sub woofer: SB-W20(P)

Notes:

1. Specifications are subject to change without notice. Mass and dimensions are aproximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precaution

(This “Safety Precaution” is applied only in U.S.A.)

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer’s recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

1.1. Insulation Resistance Test

1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumper AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc.
   Equipment with antenna terminals should read between 3 MΩ and 5.2 MΩ to all exposed parts*.(Fig.1)
   Equipment without antenna terminals should read approximately infinity to all exposed parts.(Fig.2)
   *Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

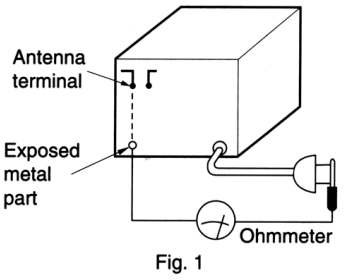


Fig. 1

Resistance = 3MΩ – 5.2MΩ

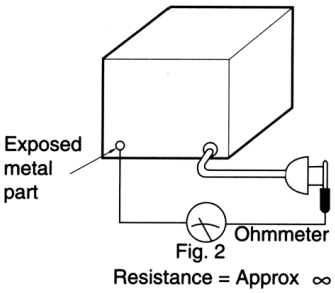


Fig. 2

Resistance = Approx ∞

2 Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C566~C569, C782 and C591 through a 10Ω, 5W resistor to ground.
DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.
After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 120V, 60 Hz in NO SIGNAL mode should be ~650mA.

3 Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

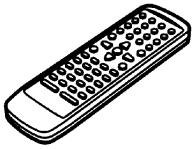
The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.
If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

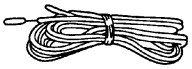
Note :

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

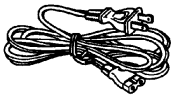
4 Accessories



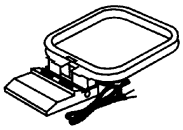
Remote Control
Transmitter



FM indoor antenna



AC mains lead



AM Loop antenna

Video cable

5 Handling Precaution for Traverse Deck (Optical Pickup)

The laser diode in the traverse unit (optical pickup) may break down due to static electricity of clothes or human body.

Use due caution to electrostatic breakdown when servicing and handling the laser diode.

5.1. Grounding for electrostatic breakdown prevention

Some devices such as the DVD player use the optical pickup (laser diode) and the optical pickup will be damaged by static electricity in the working environment. Proceed servicing works under the working environment where grounding works is completed.

5.1.1. Workable grounding

1. Put a conductive materials (sheet) or iron sheet on the area where the optical pickup is placed, and ground the sheet.

5.1.2. Human body grounding

1. Use the anti-static wrist strap to discharge the static electricity from your body.

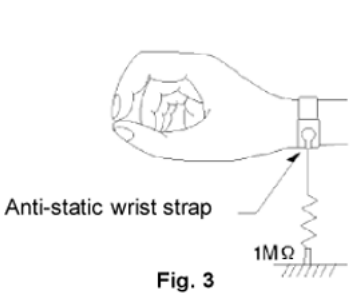


Fig. 3

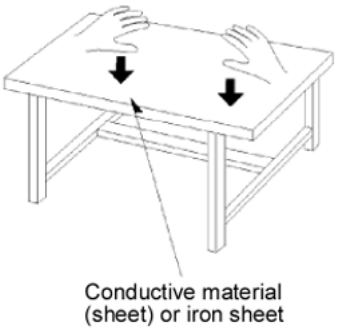


Fig. 4

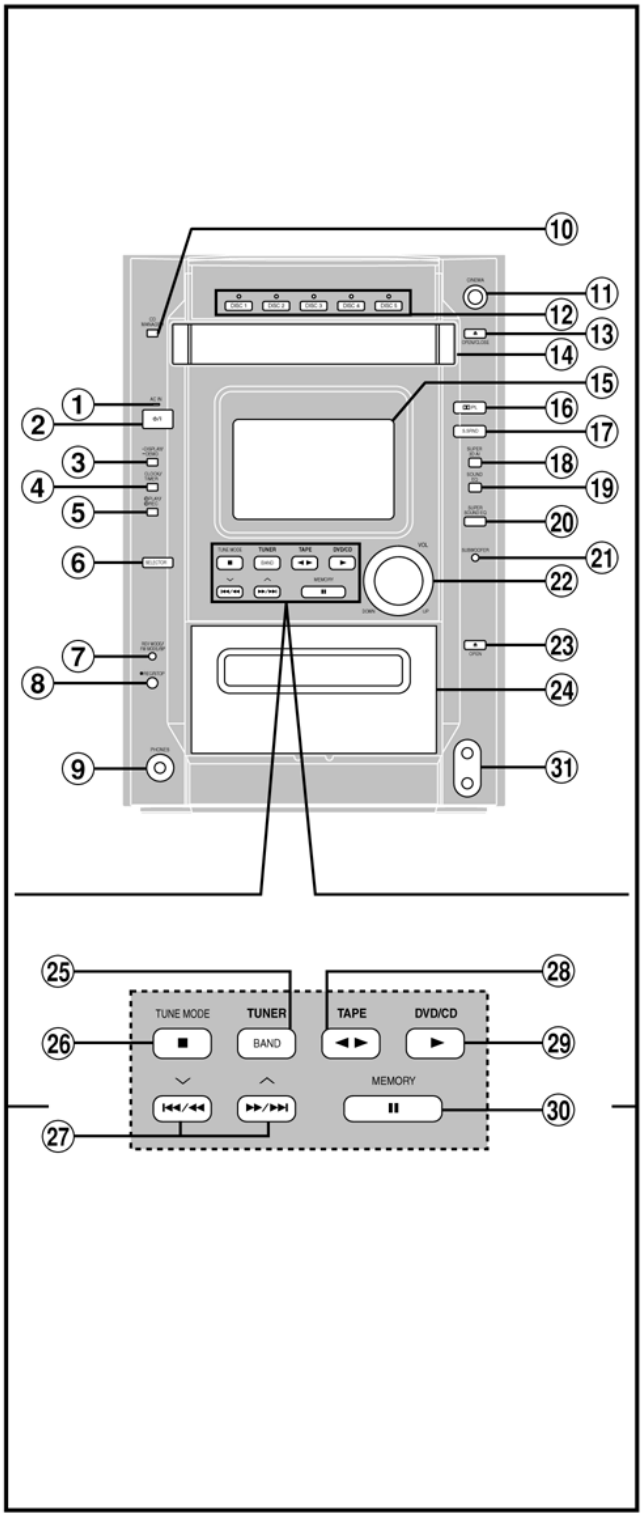
5.1.3. Handling of optical pickup

1. To keep the good quality of the optical pickup maintenance parts during transportation and before installatio,. the both ends of the laser diode are short-circuited. After replacing the parts with new ones, remove the short circuit according to the correct procedure. (See this Technical Guide.)
2. Do not use a tester to check the laser diode for the optical pickup. Failure to do so will damage the laser diode due to the power supply in the tester.

5.2. Handling Precautions for Traverse Unit (Optical Pickup)

1. Do not give a considerable shock to the traverse unit (optical pickup) as it has an extremely high-precise structure.
2. When replacing the optical pickup, install the flexible cable and cut its short land with a nipper. See the optical pickup replacement procedure in this Technical Guide. Before replacing the traverse unit, remove the short pin for preventingstatic electricity and install a new unit. Connect the connector as short times as possible.
3. The flexible cable may be cut off if an excessive force is applied to it. Use caution when handling the cable.
4. The half-fixed resistor for laser power adjustment cannot be adjusted. Do not turn the resistor.

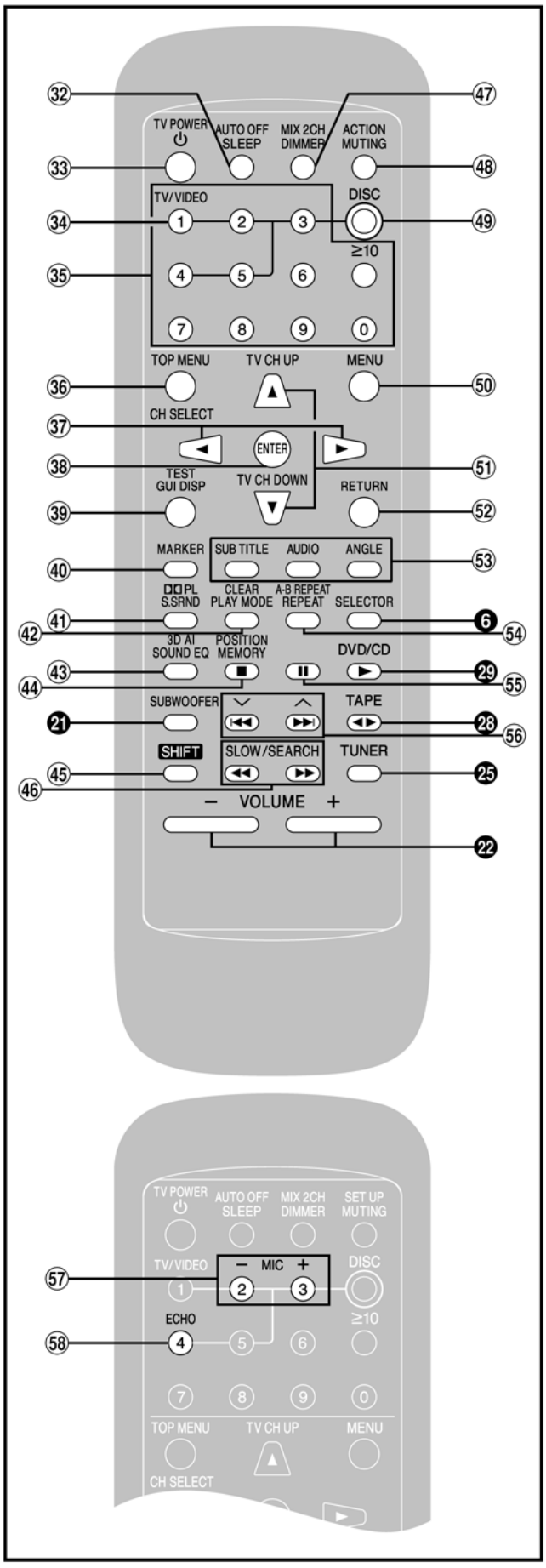
6 Operation Procedures



Front panel controls

Main unit

① **AC supply indicator (AC IN)**
This indicator lights when the unit is connected to the AC mains supply.
② **Standby/on switch (POWER ⏻/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
③ **Display select/demonstration button (-DISPLAY/–DEMO)**
④ **Clock/timer button (CLOCK/TIMER)**
⑤ **Timer button (◴PLAY/◴REC)**
⑥ **Source select button (SELECTOR)**
Each time you press the button:
TUNER→TAPE→DVD/CD→AUX
⑦ **Tape reverse mode, FM mode, AM beat proof button (REV MODE/FM MODE/BP)**
⑧ **Recording start/stop button (●REC/STOP)**
⑨ **Headphones jack (PHONES)**
⑩ **CD MANAGER button (CD MANAGER)**
⑪ **CINEMA mode button and indicator (CINEMA)**
⑫ **Disc direct select buttons and disc indicators (DISC 1 – DISC 5)**
⑬ **Disc tray open/close button (⏏ OPEN/CLOSE)**
⑭ **Disc tray**
⑮ **Display**
⑯ **DOLBY PRO LOGIC button and indicator (DD PL)**
⑰ **Super surround button and indicator (S.SRND)**
⑱ **Super 3D AI EQ button (SUPER 3D AI)**
⑲ **Sound EQ button (SOUND EQ)**
⑳ **Super sound EQ button and indicator (SUPER SOUND EQ)**
㉑ **Subwoofer button and indicator (SUBWOOFER)**
㉒ **Volume control (VOL)**
㉓ **Cassette holder open button (⏏ OPEN)**
㉔ **Cassette holder**
㉕ **Tuner, band select button (TUNER, BAND)**
Press to select TUNER as the source.
Lights when TUNER is selected as the source.
㉖ **Disc/tape stop, tuning mode select button (■, TUNE MODE)**
㉗ **Disc skip/search, tape fast-forward/rewind/TPS, tune/time adjust buttons (I◀◀/◀◀, ∨, ▶▶/▶▶I, ∧)**
㉘ **Tape play button (TAPE ◄►)**
Press to select TAPE as the source.
Lights when TAPE is selected as the source.
㉙ **Disc play button (DVD/CD ►)**
Press to select DVD/CD as the source.
Lights when DVD/CD is selected as the source.
㉚ **Disc pause, memory button (II, MEMORY)**



Front panel controls

Remote control

The illustration shows the remote control for areas except Australia, N.Z., the Middle East, South Africa and Asia.

Buttons such as ❻ function in the same way as the controls on the main unit.

㉜ **Sleep button (SLEEP)**
㉝ **Standby/on switch (⏻)**
㉟ **Numbered buttons (0–9, ≥10)**
㊱ **Top menu button (TOP MENU)**
㊲㊶ **Cursor buttons (◄, ►, ▲, ▼)**
㊳ **Enter button (ENTER)**
㊴ **GUI display button (GUI DISP)**
㊵ **Marker button (MARKER)**
㊶ **Super surround button (S.SRND)**
㊷ **Play mode select button (PLAY MODE)**
㊸ **Sound EQ button (SOUND EQ)**
㊹ **Stop button (■)**
㊺ **Shift button (SHIFT)**
See below.
㊻ **Disc slow/search button (SLOW/SEARCH ◄◄, ►►)**
㊼ **Display dimmer button (DIMMER)**
㊽ **Muting button (MUTING)**
㊾ **Disc button (DISC)**
㊿ **Menu button (MENU)**
(51) **Return button (RETURN)**
(52) **Subtitle/audio/angle buttons (SUB TITLE) (AUDIO) (ANGLE)**
(53) **Repeat button (REPEAT)**
(54) **Pause button (II)**
(55) **Disc skip, tape fast-forward/rewind/TPS, tuning button (I◄◄,∨, ►►I,∧)**

To operate functions labeled in orange, press [SHIFT] (㊺) and the corresponding button at the same time.

㉜ **Auto power-off button (AUTO OFF)**
㉝ **TV power on/off button (TV POWER)**
㉞ **TV/video input mode select button (TV/VIDEO)**
㊱ **Channel select button (CH SELECT)**
㊴ **Test signal button (TEST)**
㊶ **DOLBY PRO LOGIC button (PL)**
㊷ **Clear button (CLEAR)**
㊸ **Super 3D AI EQ button (3D AI)**
㊹ **Position memory button (POSITION MEMORY)**
㊼ **2 channel down-mixing button (MIX 2CH)**
㊽ **Initial settings button (ACTION)**
This button is labeled “SET UP” on the remote control for Australia, N.Z., the Middle East, South Africa and Asia.
(51) **TV channel select buttons (TV CH UP, TV CH DOWN)**
(54) **A-B repeat button (A-B REPEAT)**

The numbered buttons are also used for karaoke functions on the remote control for the Middle East, South Africa and Asia.

㊼ **Microphone volume buttons (– MIC +)**
㊽ **Echo button (ECHO)**

7 Precaution of Laser Diode

CAUTION :

This unit utilizes a class 1 laser.

Invisible laser radiation is emitted from the optical pickup lens.

When the unit is turned on :

1. Do not look directly into the pick up lens.
2. Do not use optical instruments to look at the pick up lens.
3. Do not adjust the preset variable resistor on the pickup lens.
4. Do not disassemble the optical pick up unit.
5. If the optical pick up is replaced, use the manufacturer's specified replacement pick up only.
6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION!
THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

8 Self-Diagnostic Function

8.1. Outline

- Self-Diagnosis of error conditions on user equipment according to conditions set by the head office.
- Occurance of an error condition and results of operations that occured after entering self-diagnostic mode are displayed via the front (FL) display panel.

8.1.1. Outline of Functions

Selector	Complex Operation	Front Panel Display (Mode-in)	Next Operation	Test Content
DVD/CD	Main unit [STOP] Main unit [>>]	Y_ _ _ _ _ _ _ _ _ _ _ _ _	[OPEN/CLOSE]	Changer mechanism operation; Self-Diagnostic code acquisition
			[STOP] Single press	Display self-diagnostic code
			[STOP] Long press	Clear recorded content of error conditions
			Remote Control [5]	Changer mechanism continuous operation test
DVD/CD	Main unit [STOP] Remote Control [0]		None	Display DVD module self-diagnostic (Display error code)
	Main unit [STOP] Other Remote Control button			Remote control [5] [6] [7] [9] [>=10] →[0]. [>=10] →[ENTER] [PAUSE] [DISPLAY] etc. Special commands for DVD module
Tuner	Main unit [STOP] Main unit [>>]	Button check display	All buttons	Button check, blink all front display panel lights
DVD/CD	Main unit [STOP] Main unit [>>]	T_ _ _ _ _ _ _ _ _ _ _ _ _	[PAUSE]	Display analog device (AD) input value [FF FF FF FF FF] Front display panel (from left) [AN0] [AN1] [AN2] [AN3] [AN4]

Cautions:

Self-diagnostics displayed via the [STOP] key display all recorded self-diagnostic codes.

8.2. Self-Diagnostic Mode Settings and Display

1. Power-source related

* Example display

* Self-Diagnostic Codes

No.	Error Display	Error Item	Detection Method
1	F61	Power Amp output error or power supply circuit error	When DCDET is L during normal operation do not POWER OFF normally, immediately set PCNT to L “GOODBYE” display and display F61 error.Do not start demonstrations while error F61 is being displayed.Record content of error occurance and display content in error detection mode.

2. CD/DVD Changer Mechanism (CR20)

Step	Operating Procedure	Micro-controller operation, processing, etc.
1	Switch the SELECTOR to CD/DVD, close tray without disk	
2	Press the [FF] button while holding down the [STOP] button for two seconds or more. Self-diagnostic mode is entered when the [STOP] button is released.	Self-diagnostic mode will not be entered if there is a disk in the tray.
3	[T] is displayed by the front display (FL) panel when entering self-diagnostic mode.	
4	Press the [OPEN/CLOSE] button.	Operations below wil be continued. While operations are in progress buttons relating to the micro-controller will be ignored. a. Change disc 1 and open the tray. b. Close the tray 1 second after opening. c. Initialize the mechanism. d. Insert disc 5 in the play position and quit.
5	Confirm recorded error content by pressing the [STOP] button while stopped in the self-diagnostic mode and displaying the results of the error check.	Each time the [STOP] button is pressed error item codes are displayed in sequence on the front display panel Example of a DVD module content display: [_DVD_H05_ _]Example of a normal self diagnostic code display: [T_ _ _H02_ _]

Step	Operating Procedure	Micro-controller operation, processing, etc.
6	Clear recorded error content by pressing the [STOP] button for 5 seconds or more while stopped in the self-diagnostic mode.	Recorded error content is cleared and the following is shown on the front display panel:[CLEAR] is displayed for one second followed by a return to [T_ _ _ _ _ _ _]
7	Cancel self-diagnostic mode by pressing the [POWER] button.	Power is turned off. At the next power on normal operation will resume.

* If an error occurs while checking the RAM during a micro-controller reset all recorded error detection content will be cleared while initializing the RAM.

* By skipping step 4 of the above procedure and moving directly to step 6 it is possible to just display the self-diagnostic codes.

* Example display

* Self-Diagnostic Codes

No.	Error Display	Error Item	Detection Method
1	H15	OPEN SW error	If there is a failsafe for a SW error that occurs during normal operation it will be recorded and displayed in self-diagnostic mode.
2	H16	CLOSE SW error	SW errors will be detected even in error detection mode.
3	H16	UP SW error	
4	H17	DOWN SW error	
5	H27	POSITION SW error	
7	F28	DISC mount error	
8	F29	DISC unmount error	

* While stopped in conditions 3 or higher above it is possible to start a CR20 continuous test. Described in detail seperately.

3. Analog Device (AD) input value display

* Pressing the [PAUSE] button on the main unit after having entered self-diagnostic mode through SELECTOR [DVD/CD] will show the analog device conversion input value on the front display panel.

* Each time the button is pressed the value will be read again and the display refreshed.

* Front display Panel:

AD Input	Usage
AN 0	Key 1 input : Key input 1
AN 1	Key 2 input : Key input 2
AN 2	Key 3 input : Key input 3
AN 3	MK_IN1 : DECK input 1
AN 4	MK_IN2 : DECK input 2

- Exit the Analog Device input value display mode by cutting off the AC power source and next time could start the device.

4. DVD/CD module

Step	Operating Procedure	Micro-controller operation, processing, etc.
1	Set the SELECTOR to CD/DVD	
2	While pressing the [STOP] button on the main unit press [0] button on the remote control	See the “DVD/CD/ Changer Control” section of “Error Display” for a detailed explanation.

* Since error detection for the DVD/CD module occurs in the system component and is sent through the mechanism component codes are received and displayed at the operating console.

* Since self-diagnostic codes for the DVD/CD module duplicate prior audio codes the self-diagnostic codes are displayed prefixed by “DVD”.

* Self-Diagnostic Codes

No.	Error Display	Error Explanation	Cause (IC number, etc.)
1	F010	Specified value is larger than the specified parental value.	Disk → IC7001
2	F020	No TT_SRPT (RLBN is 0)	Disk → IC7001
3	F021	TT_SRP number is 0	Disk → IC7001
4	F022	Specified value is larger than the TT_SRP number	Disk → IC7001
5	F023	No matching SRP for VTSN or VTS_TTN	Disk → IC7001
6	F024	Specified value is larger than TT_SRP.PTT_Ns	Disk → IC7001
7	F030	TTU_SRP number is 0	Disk → IC7001
8	F031	Specified value is larger than TTU_SRP number	Disk → IC7001
9	F040	SRP1 number is 0	Disk → IC7001
10	F041	PGCI_SRP number is 0	Disk → IC7001
11	F042	Specified value is larger than the PGCI_SRP number	Disk → IC7001
12	F043	No matching PGCI_SRP for this Menu ID	Disk → IC7001
13	F050	TMAP_SRP number is 0	Disk → IC7001
14	F051	Specified value is larger than the TMAP_SRP number	Disk → IC7001
15	F052	Specified TMAP_SA is 0	Disk → IC7001
16	F053	MAP_EN number is 0	Disk → IC7001
17	F060	C_POSIT exists, but there is no PGMAP in the PGC	Disk → IC7001
18	F061	C_POSIT exists, but the PG number in the PGC is 0	Disk → IC7001
19	F062	Specified value is larger than the PG number in the PGC	Disk → IC7001
20	F063	C_POSIT exists, but there is no C_PBIT in the PGC	Disk → IC7001
21	F064	C_POSIT exists, but the PG number in the PGC is 0	Disk → IC7001
22	F065	Specified Cell number is 0	Disk → IC7001
23	F066	Specified value is larger than the Cell number in the PGC	Disk → IC7001
24	F067	Must be a block array	Disk → IC7001
25	F070	Is not NV_PCK data	Disk → IC7001
26	FOB0	No Cell number for current search	Disk → IC7001
27	F0E0	No user guide PGC control file for DFD, cannot resolve	
28	F0E1	DFD main micro-controller type not compatible, cannot download	
29	F0E2	DFD download start; PGC playback error	
30	F0E3	Waiting for DFD download completion; PGC playback error	
31	F0E4	AVDEC during DFD download	
32	F0E5	Firmware file read error during DFD download	
33	F0E6	Interpolation check error in read-in DFD firmware	
34	F0F0	No firmware file for DFD; download unnecessary	
35	F0F1	No firmware matching the DFD download parameters; download unnecessary	
36	F103	Illegal Highlight Position	Disk → IC7001
37	F4FF	No ACK when requesting forced initialization of panel component	Panel Component → IC6001
38	F500	DSC Error	IC2001
39	F501	DSC Not Ready Error	IC2001
40	F502	DSC Time Out Error	IC2001
41	F503	DSC Communication Failure	IC2001
42	F504	Error adjusting DSC data slice offset	IC2001
43	F505	DSC Attention Error	IC2001
44	F506	Can't determine media type (invalid media type)	IC2001
45	F600	Can't access administrative data due to demodulation error	IC7001
46	F601	Undefined sector ID requested	IC7001
47	F602	Can't access LEAD_IN data due to demodulation error	IC7001
48	F603	Can't access KEY_DET due to demodulation error	IC7001
49	F610	Can't control ODC	IC7001
50	F611	No CRCOK within the set time period (CD related)	IC7001
51	F612	No CRCOK within the set time period (DVD related)	IC7001
52	F620	Laser safeguard: high temperature condition	
53	F621	Laser safeguard: circuit failure condition	
54	F700	MBX Overflow	System component bug → IC6201
55	F701	Message Command Not Complete Error	System component bug → IC6201

No.	Error Display	Error Explanation	Cause (IC number, etc.)
56	F702	Message Command Changed	System component bug → IC6201
57	F880	Task number not relevant	System component bug → IC6201
58	F890	Attempted to send message while sending to an AV task (mailbox overflow, etc.)	System component bug → IC6201
59	F891	Couldn't send message to AV task (mailbox overflow, etc.)	System component bug → IC6201
60	F8A0	Message command is not relevant	System component bug → IC6201
61	F893	Flash ROM is interpolated	IC6302
62	F894	EEPROM is not normal	IC6303

No.	Error Display	Error Explanation	Cause (IC number,etc.)
1	U11	Focus servo error	
2	H01	Tray loading error	
3	H02	Spindle server error	
		DSC disc motor error	
		6626 CLVS FAILURE	
4	H03	Traverse motor error	
5	H04	Tracking server error	
6	H05	SEEK timeout error	

8.3. Additional Functions

8.3.1. Tray Lock Function

- There are two tray lock functions
- Power on through the SELECTOR /DVD/CD. While holding down the [CD STOP] button on the main unit press the [POWER] button on the main unit or the remote control. Lock Mode A will be entered, [_ _ _ _LOCKED_ _] will be displayed for 3 seconds, and the current disc will begin playing.
- Lock Mode A will disable the button below while turning the power on or off.

  [OPEN/CLOSE]
- When locked in Lock Mode A pressing the [POWER] button on the main unit or the remote control while holding down the [CD STOP] button on the main unit will display [_ _UNLOCKED_ _] and unlock the unit.
- Power on through the SELECTOR DVD/CD. While holding down the [CD PLAY] button on the main unit press the [POWER] button on the main unit or the remote control. Lock Mode B will be entered, [_ _ _LOCKED_ _] will be displayed for 3 seconds, and the current disc will begin playing.
- In Lock Mode B the button below, mainly selector and disc operation related items, will be disabled.

  Main Unit: [DISC 1] ~ [DISC 5] [OPEN/CLOSE] [DISPLAY/DEMO] [CLOCK/TIMER] [T.PLAY/REC] [SELECTOR] [STOP] [TUNER/BAND] [TAPE < >] [I<</<<] [>>/>>I] [PAUSE] [TAPE EJECT] [REV MODE] [REC/STOP]

  Remote Control: [SLEEP] [AUTO OFF] [DIMMER] [MIX 2ch] [MUTING] [0] ~ [9] [>=10] [DISC]

  [RETURN] [DISPLAY] [TEST] [CH SELECT] [TUNER/BAND] [TAPE < >] [SELECTOR] [REPEAT]

  [MARKER] [STOP] [PAUSE] [I<<] [>>I] [<<] [>>]

  [KARAOKE ON/OFF] [KARAOKE DISP] [KARAOKE MODE] [ONE TOUCH] [ECHO]

  [KEYCON b] [KEYCON #] [MIC -] [MIC +] [SETUP]

  While playing it is not necessary to re-disable buttons disabled under Lock Mode B.

  Also, button related to sound quality are not disabled. The buttons below are not disabled.

  Main Unit: [POWER] [CD MANAGER] [AMAZING] [DVD/CD] [CINEMA] [DPL] [SSS]

  Remote Control: [POWER] [SET UP] [PLAY MODE] [CLEAR] [EQ] [3D AI] [SUPER W] [VOL -] [VOL +]

  [DVD/CD >] [MENU] [TOP MENU] [<] [>] [^] [v] [ENTER]

  [SUB TITLE] [AUDIO] [ANGLE]
- When locked in Lock Mode B pressing the [POWER] button on the main unit or the remote control while holding down the [CD PLAY] button on the main unit will unlock the unit after displaying [_ _UNLOCKED_ _] for 3 seconds.
- Tray lock is canceled when AC power is cut.
- Tray lock A and B functions are exclusive operations. The first one enabled will have priority.
- When a disabled button is pressed while in lock mode [_ _ _LOCKED_ _] will be displayed for 3 seconds on the front display panel.
- Lock mode will be cancelled when a loading error occurs with the CR20.

  (If the [OPEN/CLOSE] button were disabled when the tray is opened by a TAKE OUT DISC error recovery would be impossible)

8.3.2. Special Commands for the DVD Module

- When the SELECTOR is set to DVD/CD the commands for the operations below will be sent to the mechanism component micro-controller.
- The mechanism component micro-controller relays these commands without alteration to the DVD module.
- THe DVD module sends data resulting from commands to the mechanism component, where they are then relayed to the operating console.
- Data received from the DVD module by the operating console is displayed by the right 10 digits.
- Command Table

Special Operation	Command	Operation/Display	Release/Remarks
Jitter Display (servo test mode)	B5	Main Unit [STOP] + Remote Control [5] xxx: jitter measurement (DEC) [xxx_yyy_zz] yyy:read error counter (DEC) zz: focus drive measurement (HEX) Test string from DVD MODULE :[J_xxx_yyy_zz]	Send STOP command from operating console
Region Display (location display)	B6	Main Unit [STOP] + Remote Control [6] w: region number [_ _w_xy_zzz] x: N noPAL P PAL y: N NTSC 6 PAL60 zzz: panel component jumper data Text string from DVD MODULE: [_ _w_xy_zzz]	5 seconds after activation the text string from the DVD MODULE dissappears and display is automatically turned off.
Version Display	B7	Main Unit [STOP] = Remote Control [7] s: panel component mode type [srrrxxyzzz] rrr: panel component release number [_ _ _xxyzzz] x: generation of system component (45) y: system component model type zzz: system component release number Text string from DVD MODULE: [srrr_ _xxyzzz] srrr will be blank with mini-components	5 seconds after activation the text string from the DVD MODULE dissappears and display is automatically turned off.
Error Code Display	BA + request record number	Main Unit [STOP] + Remote Control [0] [__DVD_Fxxx] xxx: error number [__DVD_Uxxx] [__DVD_Hxxx]	5 seconds after activation the text string from the DVD MODULE dissappears and display is automatically turned off.
Laser Current Initial measurement (saved laser power value)	C2	Main Unit [STOP] + Remote Control [PAUSE] [DO_034_028] 034: DVD current measurement (mA) (DEC) 028: CD current measurement (mA) (DEC) Text string from DVD MODULE: [LDO_034_028]	
DVD Laser Current Measurement	C3	Main Unit [STOP] + Remote Control [DISPLAY] 034: saved in EEPROM [DD_034_032] initial current mearement (mA) (DEC) 032: present current measurement (mA) (DEC) Text string from DVD MODULE: [LDD_034_032]	Laser lighting remains on until POWER OFF of the tray opens.
ADSC Internal RAM Display A	C4	Main Unit [STOP] + Remote Control [1] [A_0FA_6901] 0FA: address (HEX) 6901: RAM value of display address (HEX)	STOP command is sent from the operating console to the DVD MODULE
ADSC Internal RAM Display B	C5	Main Unit [STOP] + Remote Control [2] [A_0FA_6901] 0FA: address (HEX) 6901: RAM value of display address (HEX)	STOP command is sent from the operating console to the DVD MODULE
kink measurement (invalid pick detection)	C6	Main Unit [STOP] + Remote Control [9] [FK_109_101] 109: maximum value of calculated value (DEC) 101 : ratio of maximum value to minimum value [FK_ER_9101] ER: display error occurance 9101: ADSC command error code	STOP command is sent from the operating console to the DVD MODULE
User Initialization (For users)	BC+ Model Table + 0 x 00	Main Unit [STOP] + Remote Control [>=10] [INITIALIZED] display on the operating console for 2 seconds. When display clears the user initialization commands is output the system component. Returns user settings to factory values.	When the [INITIALIZED] on the front panel dissappears the operation is complete. to GUI is INITIALIZE.

Special Operation	Command	Operation/Display	Release/Remarks
All Reset (for design service)	BC+ Model Table + 0 x 3C	While [INITIALIZED] is being displayed from the user initialization operation press [STOP] on the main unit and [ENTER] on the remote control. [_DVD_RESET] is displayed on the operating console and the all reset command is output instead of the user initialization command. Returns user settings to factory values. Panel component jumpers are referenced, and the appropriate model number's initialization values are written to the EEPROM and global region. Laser times and spindle times are not initialized.	If NO DISC or ---READ can be confirmed after DVD RESET is displayed on the front display panel the operation is completed. No GUI. All items temporarily dissappear.
All set (for industrial production)	F1	Receipt of remote control code [B0 00 F1]. Also, Main Unit [STOP] + Remote Control [1DDF] [_ALL_SET] (display text string from system component). Returns user settings to factory values. Panel component jumpers are referenced, and the appropriate model number's initialization values are written to the EEPROM and the global region. Laser times and spinlde times are also initialized.	If NO DISC or ---READ can be confirmed after ALL SET is displayed on the front display panel the operation is completed. ALL SET is displayed on the front displaye panel the operation is completed. GUI is ALL SET.
Device Name Display	B1+ 0 x 13	Main Unit [STOP] + Remote Control [4] [FEP_??????] [SRV_??????] [ODC_??????] [Av_??????] [SYS_??????]	Display cycles every 3 seconds. Display automatically turns off after the last device name is displayed.
Laser Time Use	B1+ 0 x 14	Main Unit [STOP] + Remote Control [^] 1234 : DVD laser use time [_1234_5678] 5678: CD laser use time 10 hour units displayed in 4 digits Text string from DVD MODULE: [T1_1234_5678]	5 seconds after activation the text string from the DVD MODULE dissappear and display is automatically turned off.
Reset Laser Time Use	B2 + 0 x 14	While use time is being displayed press Main Unit [STOP] + Remote Control [V] [_0000_0000] DVD and CD are both reset at the same time.	5 seconds after activation the text string from the DVD MODULE dissappear and display is automatically turned off.
Spindle Use Time	B1 + 0 x 15	Main Unit [STOP] + Remote Control [>] [___T2_1234] 1234: 10 hour units displayed in 4 digits Text string from DVD MODULE: [T2_1234_____]	5 seconds after activation the text string from the DVD MODULE dissappear and display is automatically turned off.
Reset Spindle Use Time	B2 + 0 x 15	While use time is being displayed press Main Unit [STOP] + Remote Control [<] [___T2_0000]	5 seconds after activation the text string from the DVD MODULE dissappear and display is automatically turned off.
CD Laser Current Measurement	B1 + 0 x 92	Main Unit [STOP] + Remote Control [3] 028: initial current value [DC_028_026] stored in EEPROM (mA) 026: Present current value (mA) Text string from DVD MODULE: [LDG_028_026]	Laser lighting continues until POWER OFF or the tray opens.
Region and Firmware Version Display	BF + 0 x 92	Main Unit [STOP] + Remote Control [8] r: region number [__r__xyzzz] x: generation of system component y: system component model type zzz: system component model type Text string from DVD MODULE: [____r__xyzzz]	5 seconds after activation the text string from the DVD MODULE dissappear and display is automatically turned off.

8.3.3. Jitter Offset Correction

- The jitter offset correction function below is necessary for D5, but is not necessary for D8.
- While displaying K objects,certain remote control operations correct the offset of the DVD MODULE jitter value.
- When the DVD module firmware rewriting connector is inserted K objects will be displayed [KC 00 0000].
- Key codes of input from the remote control's ten key while displaying K objects are relayed to the system component by the operating console.
- Inputting [2] [0] from the remote control returns a 14 hex value from the system component. The value is converted from hex → dec and displayed as [KC 20 0000].
- Continuously pressing the [PLAY] button returns the offset result as a text string from the system component, which is displayed

as [KC 20 0002].

- The DVD Module has functions that support buttons other than [2] [0] [PLAY], so when K objects are being displayed key codes are as below.

  [0] [1] [2] [3] [4] [5] [6] [7] [8] [9] [>=10] [PLAY]

8.4. Pseudo ROM Correction

8.4.1. Outline

- Since the Mitsubishi M3819 series micro-controller is capable of making programs operate in RAM the pseudo ROM corrections below are possible.
- Program the process calling the modifying sub-routine in advance.
- Program the process to read-out the program from the EEPROM into RAM in advance.
- Processes previous to the read-out cannot be modified.
- In pseudo ROM corrections defective processses cannot be completely bypassed.

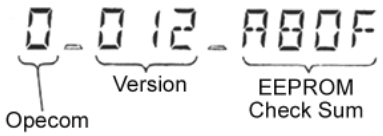
8.4.2. EERPOM Flag Indicator Interpretation

- Regardless of the EEPROM flag indicator CS/CLK/DATA is output and the DATA read-in process occurs.

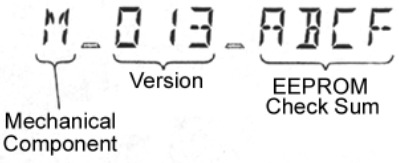
  Accordingly, even if there is no EEPROM hardware processing at the terminal is necessary.
- If the data read-out below is valid then an EEPROM will be determined to be present, and the modifying program will be read-out.
  - When the MASK ROM file name (8 character ASCII code, 8 bytes) and the EEPROM file name match.
  - When the modifying points flag indicator data (8 points, 1 byte) written at two places on the EEPROM match.

8.4.3. CHECK SUM Display

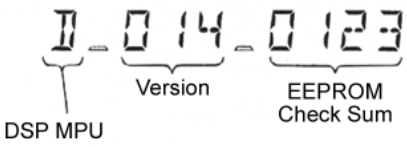
- In order to confirm that the EEPROM is loaded, the operations below display the CHECK SUMs for the Operating Console, mechanism component, and DSP micro-controller EEPROMs.
- Receiving [1DDF or 1CDF] when in Process Check Mode with Process Check Mode-in [1DDF or 1 CDF] will display the operating console's version and EEPROM CHECK SUM.



- If [1DDF or 1CDF] are received while the operating console's version and EEPROM CHECK SUM are being displayed the mechanism component's version and EEPROM CHECK SUM are displayed.



- If [1DDF or 1CDF] are received while the mechanism component's version and EEPROM CHECK SUM are being displayed the DSP micro-controller's version and EEPROM CHECK SUM are displayed.



- If a valid remote control code is received while the CHECK SUM is being displayed the CHECK SUM display will be erased to confirm with that operation and display.
- When the result of referencing the EEPROM is a differing file name [NO] will be displayed, just as when no EEPROM is present.

8.4.4. Insertion Points for ROM Correction Processing

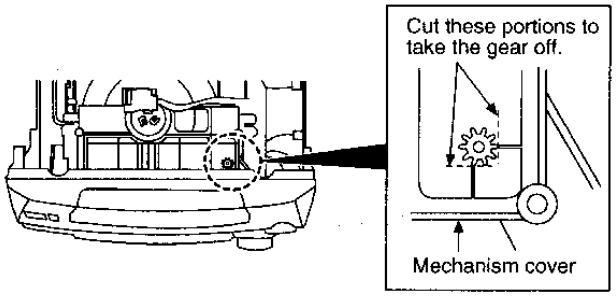
- Processing read-outs from EEPROM
  - RCaccE2PrSUB: Insert after port or control register setting (AC check).
    It is also necessary for the EEPROM's power supply to be in power-off (AC positive).
- Processing Modifying Program Calls
  - RCtimerinsSUB: Insert at the end of the timer interrupt.
  - RCschedulerSUB: Insert in the OS scheduler.
  - RCinitialSUB: Insert after initialization, immediately before jumping to the main process.
  - RCstandbySUB: Insert immediately before the power failure process STP command.
  - RCimagetskSUB: Insert immediately before branching to individual image processing.
  - RCdisptskSUB: Insert immediately before processing the data settings for the display RAM.
  - Rcreserve0SUB: Insert in the transmission process to the CD mechanism component.
  - Rcreserve1SUB: Insert in the transmission process to the DSP control micro-controller.
- Data inside the EPROM (Required RAM capacity)
  - EEPROM flag indicator determination data: 10 bytes
  - Modifying Program's starting address: 16 bytes
  - Modifying Program: remaining bytes

9 Disassembly and Main Component Replacement Procedures

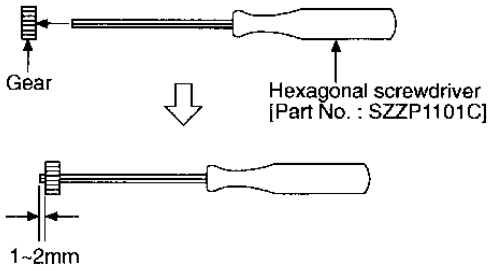
Gear for servicing (jig) information

1. This unit has a gear which is used for checking items (Open/close of disc tray, up/down operation of traverse unit by manually) when servicing.
2. For preparation of gear (for servicing), Perform the procedures as follows.
3. In case of re-servicing the same set, the "gear for servicing" may has been taken off because it has been used. The "gear for servicing" must be stored.

1. Remove the gear provided with mechanism cover as shown below.



2. Insert the hexagonal screwdriver (2mm) into the gear, and then project the tip of screwdriver for 1~2mm in length.



"ATTENTION SERVICER"

Some chassis components may have sharp edges.

Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**

   Special reassembly procedures are described only when required.
3. **Select items from the following index when checks or replacement are required.**

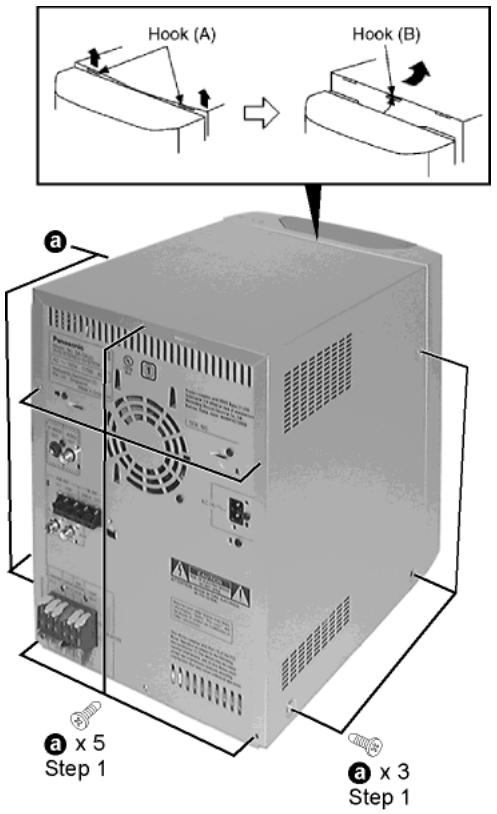
Contents

- **Checking Procedure For Each Major P.C.B.**
  1. Checking of the Main and DVD F/E Module (1/2) and (2/2) P.C.B.
  2. Disassembly for DVD/CD cahnger unit
  3. Disassembly Procedure for the each major P.C.B. checking
- **Main Component Replacement Procedures**
  1. Replacement of the Traverse Deck.
  2. Replacement of the Power Amplifier IC.
- **Disassembly and assembly of the Traverse Unit**
- **Disassembly and assembly of the Disc Tray**

Warning:

This product uses a laser diode. Refer to caution statement Precaution of Laser Diode.

9.1. Checking for the Main and DVD F/E Module (1/2) and (2/2) P.C.B.

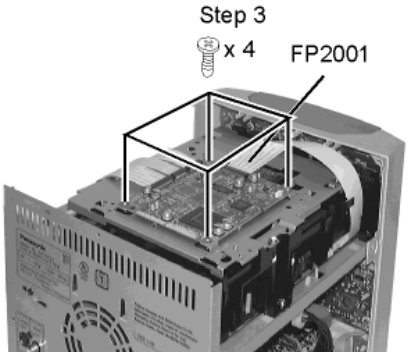


Step 1 Remove 3 screws each both side and 5 screws at rear panel.

Step 2 Lift up the both sides cabinet ass'y to release the hook (A). Then pull the cabinet ass'y toward the rear and release the hook (B) to remove the cabinet ass'y.

NOTE: When installing the cabinet ass'y, take care not to damage the front cabinet ass'y from hook (B).

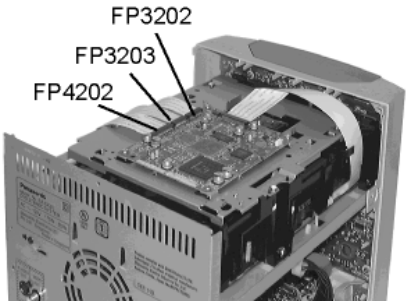
- Check the Main P.C.B. and DVD F/E Module (1/2) P.C.B..



Step 3 Remove 4 screws.

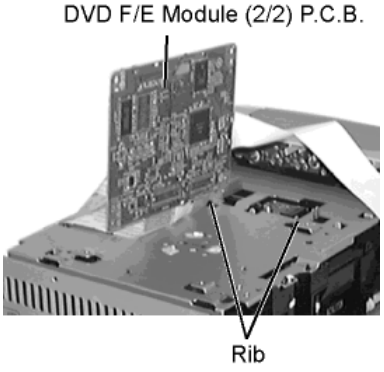
Step 4 Remove 4 connectors.

Step 5 Pull out 4 FFCs.



- Checking the DVD F/E Module (2/2) P.C.B. as shown below.

Step 7 Disconnect the FFCs to the connector.



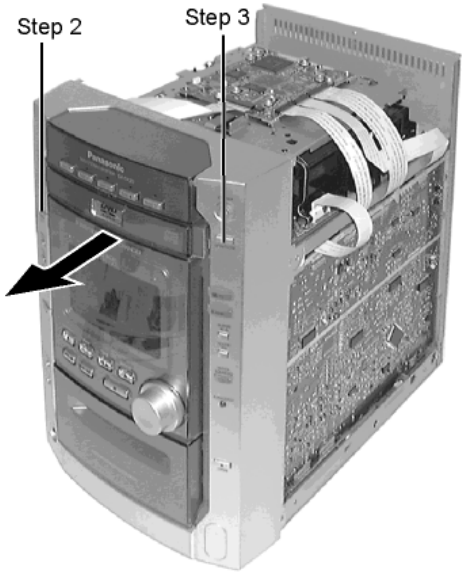
Step 8 Lift up DVD F/E Module (2/2) P.C.B. as shown.

9.2. Disassembly for DVD/CD changer unit

9.2.1. Disassembly for the disc tray ornament

- Follow the (Step 1) - (Step 3) of item 8.1

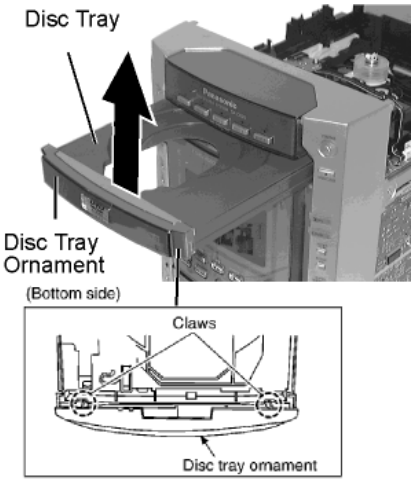
When opening the disc tray automatically



Step 1 Connect the power.

Step 2 Push the button and the power turns ON.

Step 3 Push the open/close button, so the disc tray will be open automatically. (If the other buttons would be push, disc tray would be open.)

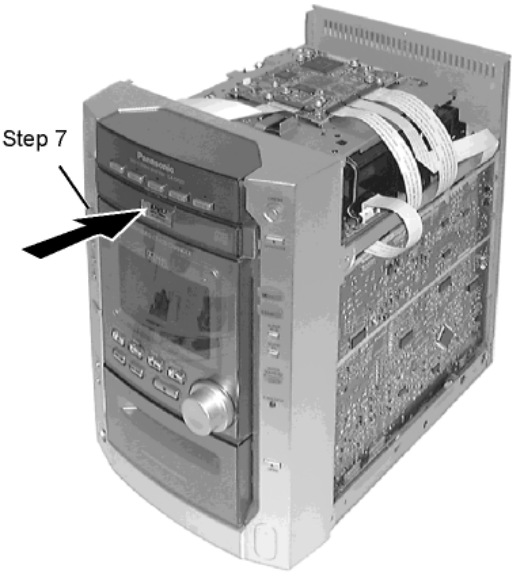


Step 4 Disconnect the power.

Step 5 Release the 2 claws, and then remove the disc tray ornament.

Step 6 Connect the power again.

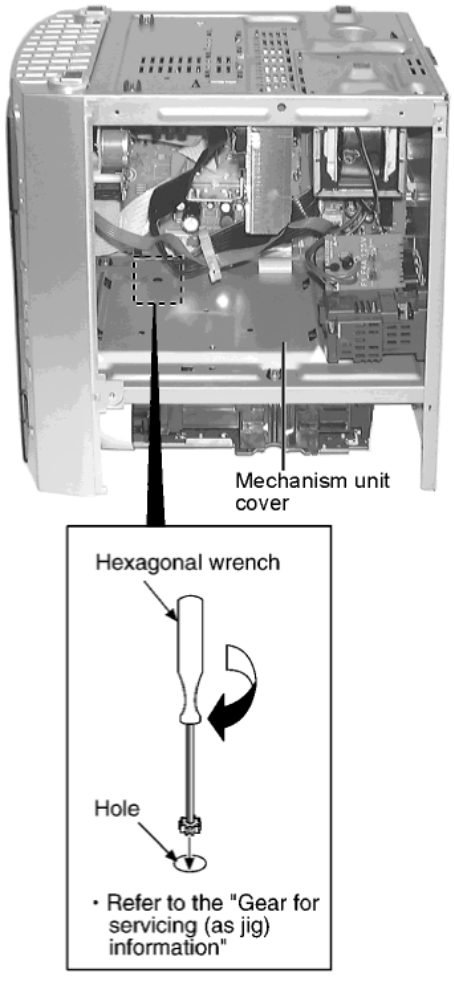
Step 7 Push the button and the power turns ON.



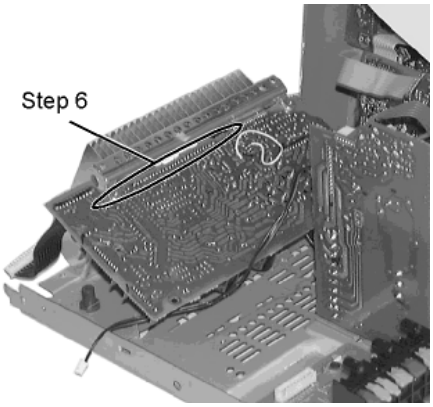
Step 8 Push the open/close button1, so the disc tray will be close.

When opening the disc tray manually

Step 1 Upset the unit.



Step 2 Insert the gear for servicing into the bottom hole of mechanism unit cover, and then rotate the hexagonal wrench clockwise so the disc tray will be open.



Step 3 Release 2 claws, and then remove the disc tray ornament.

Step 4 Push the disc tray.

9.2.2. Disassembly for the DVD/CD changer unit.

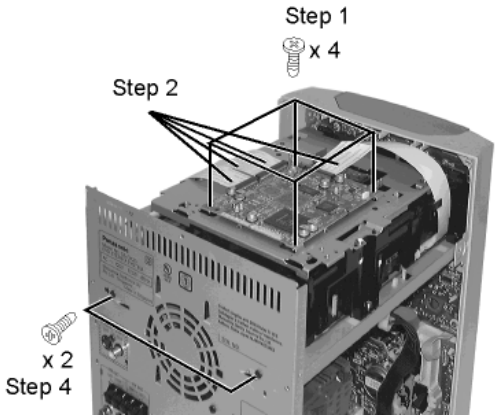
- Follow the (Step 1) - (Step 3) of item 8.1
- Follow the disassembly instruction for the disc tray ornament .

Step 1 Remove 4 screws.

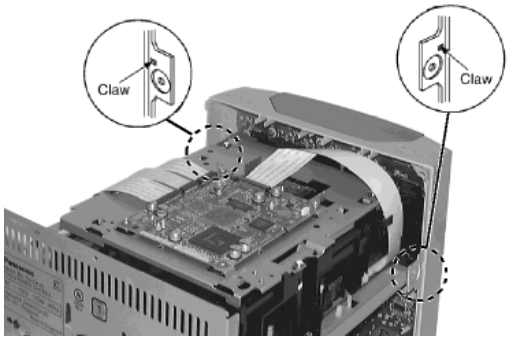
Step 2 Pull out 4 FFCs.

Step 3 Remove 4 connectors.

Step 4 Remove 2 screws at rear panel.



Step 5 Release the claws of both ends, and then lift up the DVD changer unit.



Step 6 Remove the DVD/CD changer and place the DVD/CD changer unit on the unit.

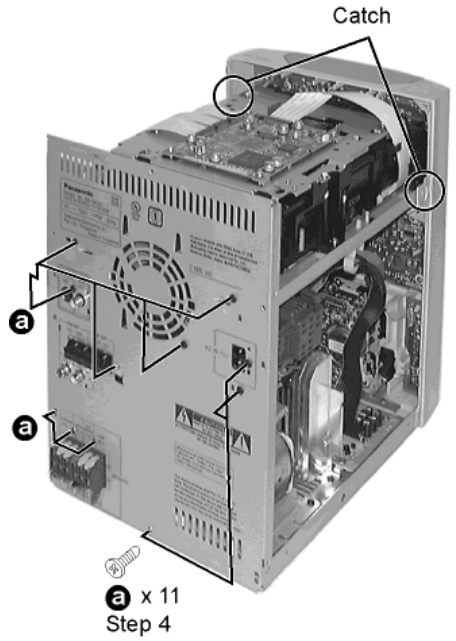
Step 6

NOTE:
Cover the front panel ass'y with cloth to prevent from damage.

The preparation of checking procedures in operational condition is completed.

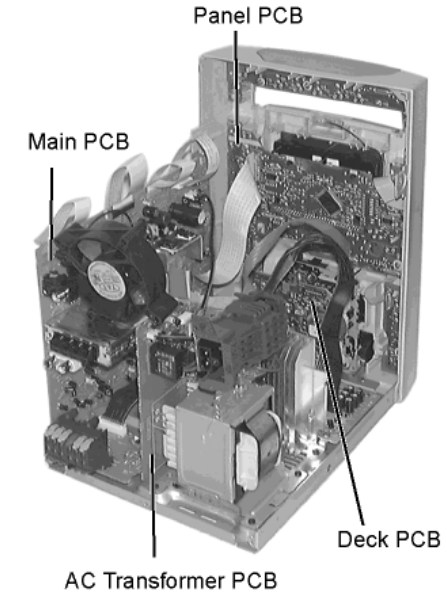
9.3. Disassembly Procedure for each major P.C.B. Checking

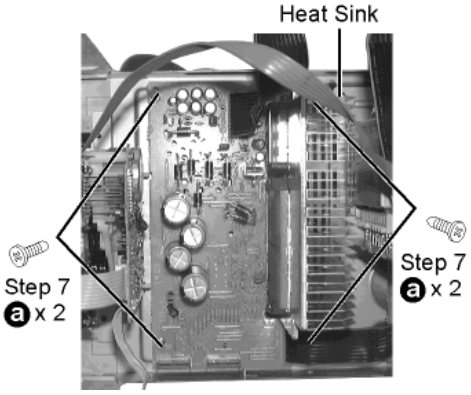
- Follow the (Step 1) - (Step 7) of item 8.1
- Follow the (Step 1) - (Step 6) of item 8.2

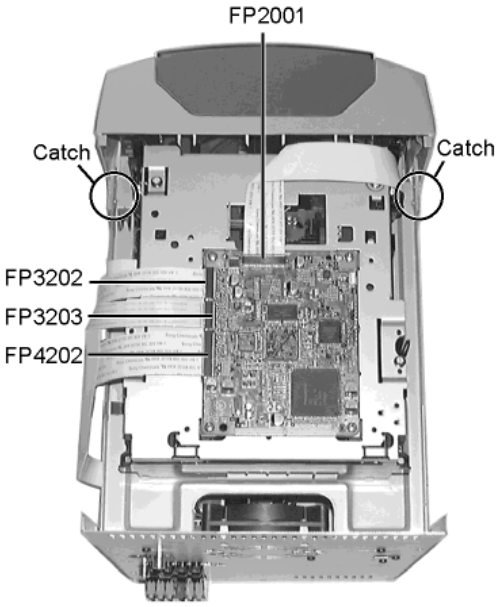


Step 4 Remove 11 screws and catches both side.

- Checking for Panel P.C.B., Main P.C.B. and Deck P.C.B..



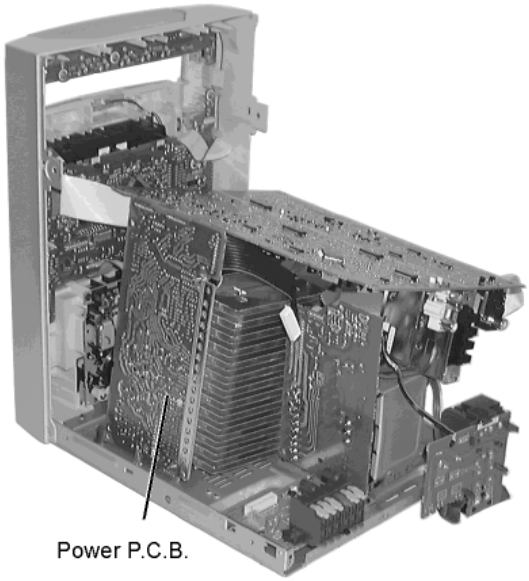




Step 5 Remove the wires at FP2001, FP3202, FP3203, and FP4202.

Step 6 Release the wire from catch, remove the CD changer base together with the CD changer.

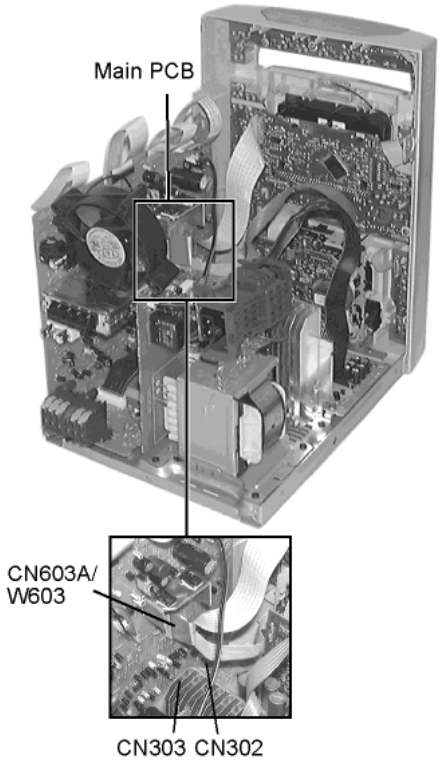
- Checking for Power P.C.B.

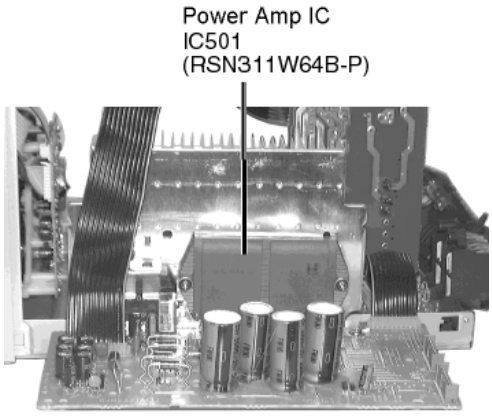


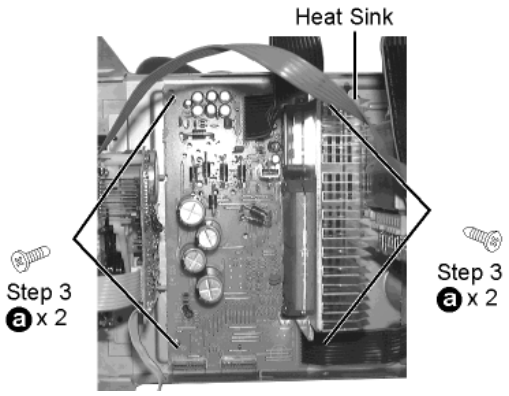
- Replacement of the Power Amplifier IC and Regulator Transistor.

Step 1 Follow the procedures in “Checking procedure for each major P.C.B.

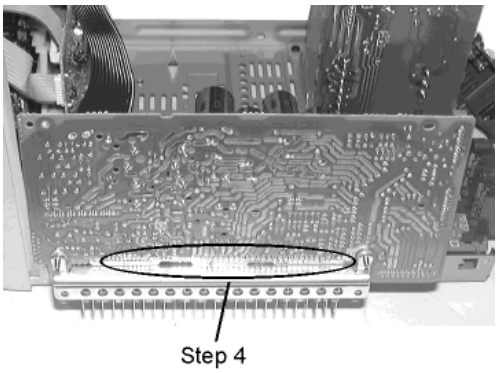
Step 2 Remove the wires at CN302, CN303 and H603A/W603 and pull out the Main P.C.B..







Step 3 Remove 4 screws fixed to the Power Amplifier IC and Transistor Holders.



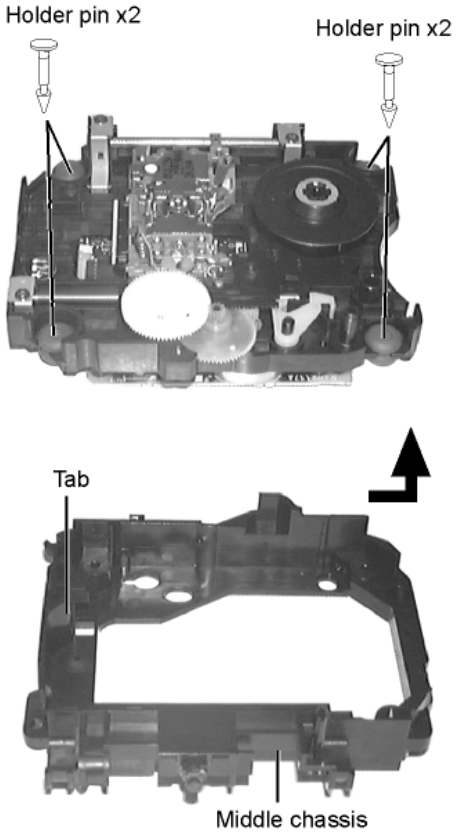
Step 4 Unsolder the terminals of Power Amp IC and replace the component.

9.4. Disassembling the Middle Chassis

Step 1 Remove the holder pins.

Step 2 Remove the tab.

Step 3 It lifts while pulling it in the direction of the arrow.

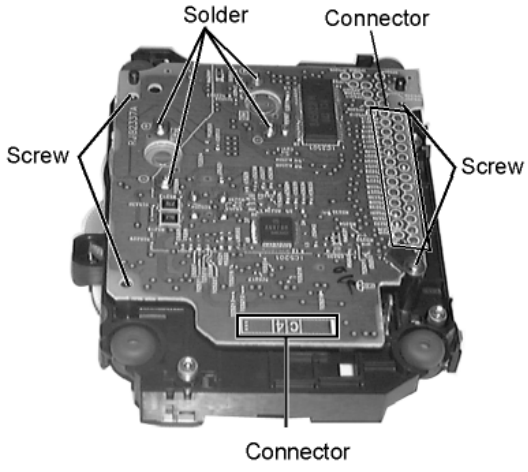


9.5. Terminal P.C.B.

Step 1 Unscrew the screw.

Step 2 Remove the solders.

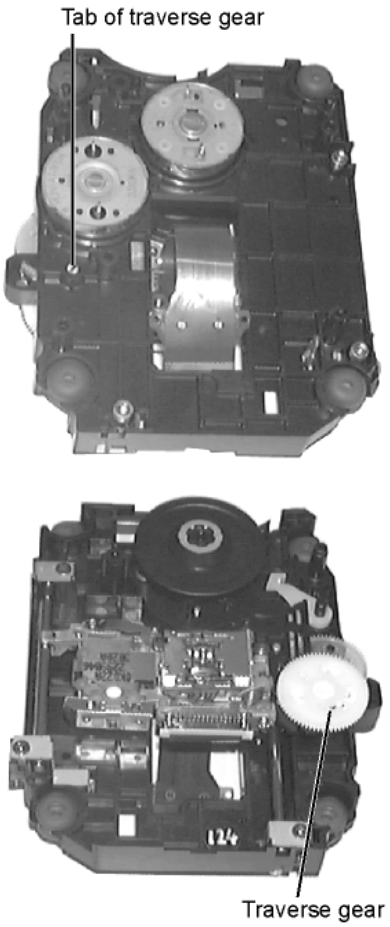
Step 3 Remove the connector.



9.6. Traverse Gear

Step 1 Disengage the tabs from the traverse gear.

Step 2 Remove the traverse gear.

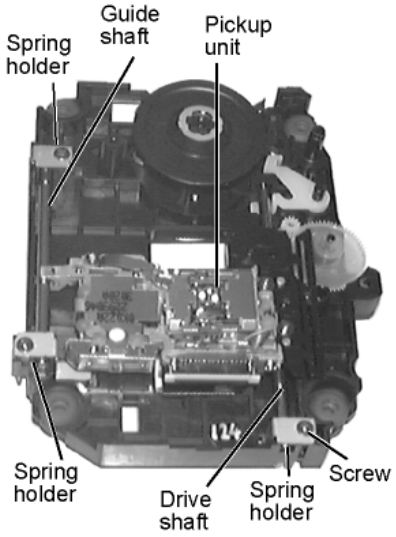


9.7. Optical Pickup Unit

Step 1 Unscrew the screws.

Step 2 Remove the spring holders and the springs.

Step 3 Pull out the drive shaft and guide shaft.



9.7.1. Precautions in optical pickup replacement

The optical pickup can be damaged by static electricity from your body. Be sure to take static electricity countermeasures when working around the optical pickup. (Refer to the related page in this Manual about the countermeasures.)

1. Do not touch laser diode, actuator and their peripheries.
2. Do not use tester to check laser diode. (Laser diode can be damaged easily.)
3. The use of soldering iron with anti-static feature is recommended when providing short-circuit to laser diode or when removing it.
4. Solder the land on flexible cable of optical pickup unit.

Caution

- When using the soldering iron without anti-static feature, short circuit the flexible cable terminal with a clip before short-circuiting the land.
- After intended repair is finished, remove the solder for short-circuit of laser diode in a correct way following the procedure described in this Manual.

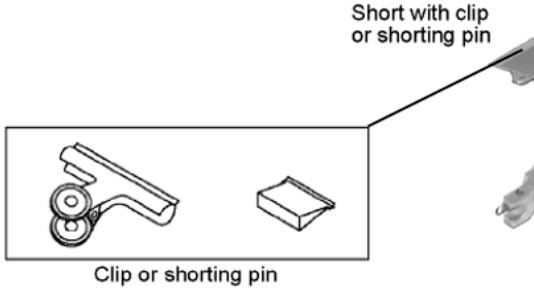


Fig. 1

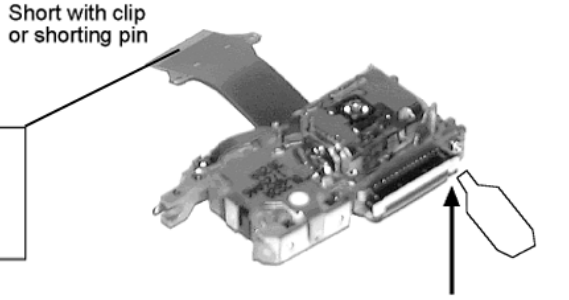
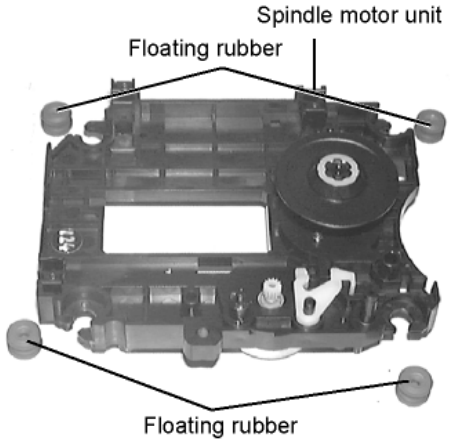


Fig. 2

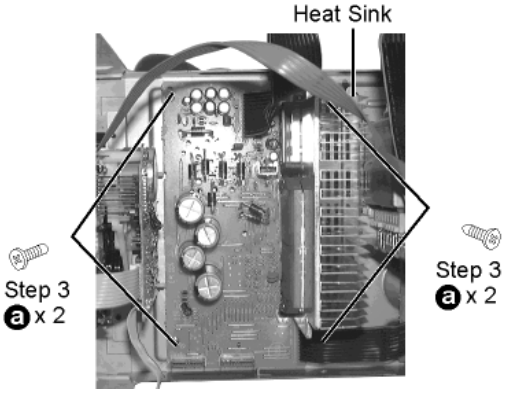
9.8. Disassembling the Spindle Motor Unit

Step 1 Remove the floating rubbers.



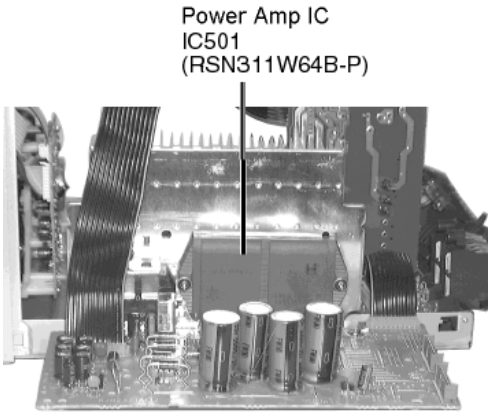
Replacement of the Power Amplifier IC

Step 1 Follow the procedures in “Disassembly Procedure for each major P.C.B. Checking” (Step 1 to Step 6).

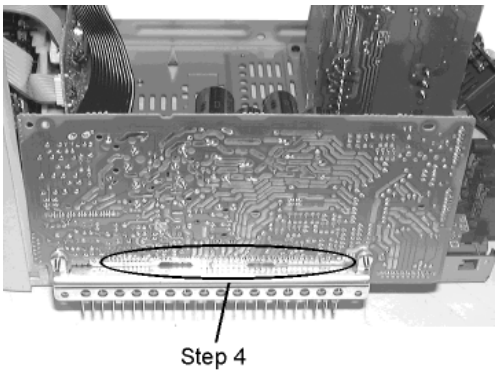


Step 2 Remove the wires at CN302, CN303 and CN304 and pull out the Main P.C.B..

Step 3 Remove 4 screws fixed to the Power Amplifier IC.



Step 4 Unsolder the terminals of Power Amp IC and replace the respective component.

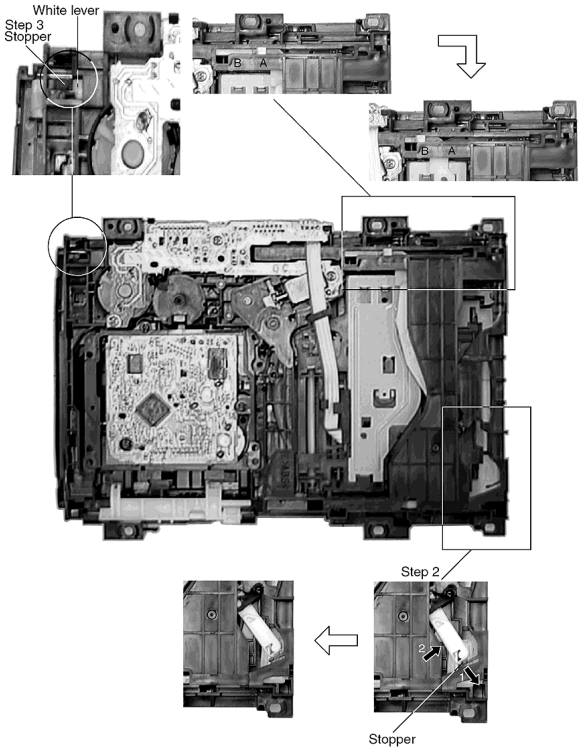


9.9. Disassembly and assembly of the Traverse Unit

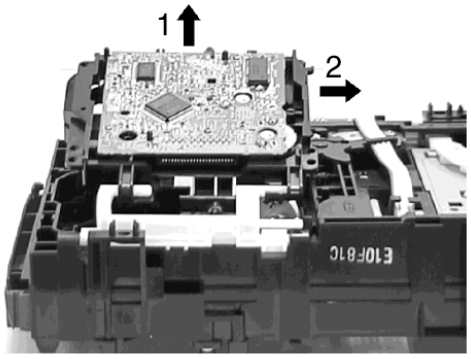
Step 1 Push the lever from position A to B.

Step 2 Pull the stopper (black) in the direction of arrow 1 and push the lever in the direction of arrow 2.

Step 3 Push the stpeer (black) down until the white lever eject out.



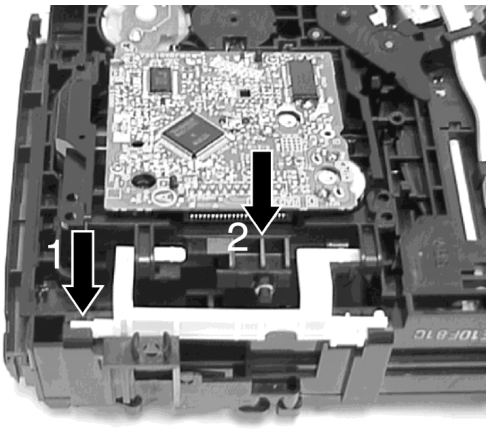
Step 4 Lift up the traverse unit and slide out the unit as shown.



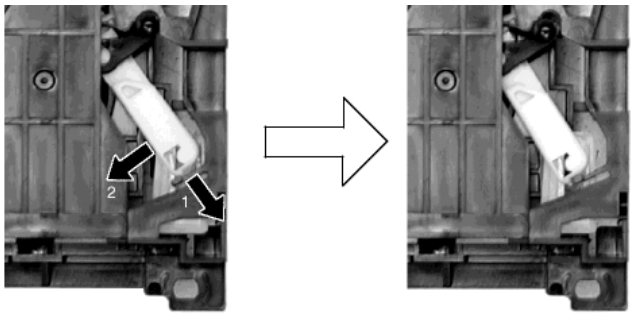
- **Replacement of Traverse Unit**

Step 1 Place the traverse unit as shown.

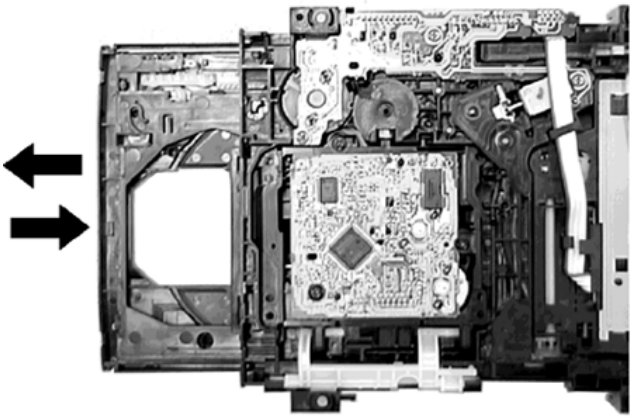
Step 2 Press in the lever shaft in the direction of arrow 1 as shown and push the traverse unit into the position in the direction of arrow 2.



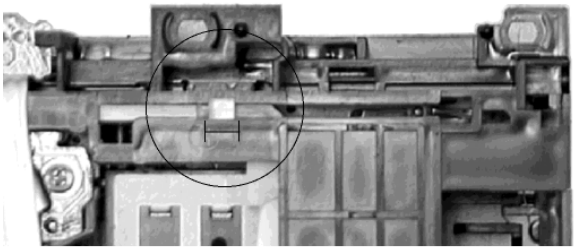
Step 3 Pull the stopper in the direction of arrow 1 and release the lever in the direction of arrow 2 as shown.



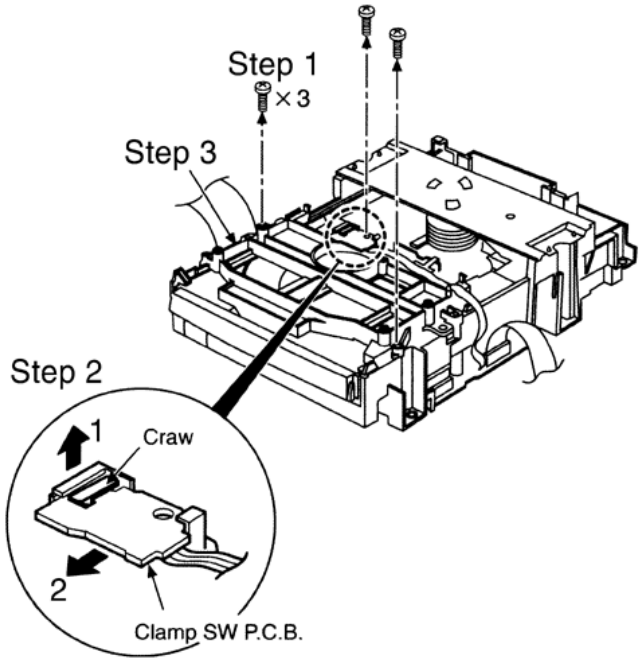
Step 4 Pull out the tray half way and push it back fully.



Step 5 Push the lever to the initial position indicated 'I---I'.

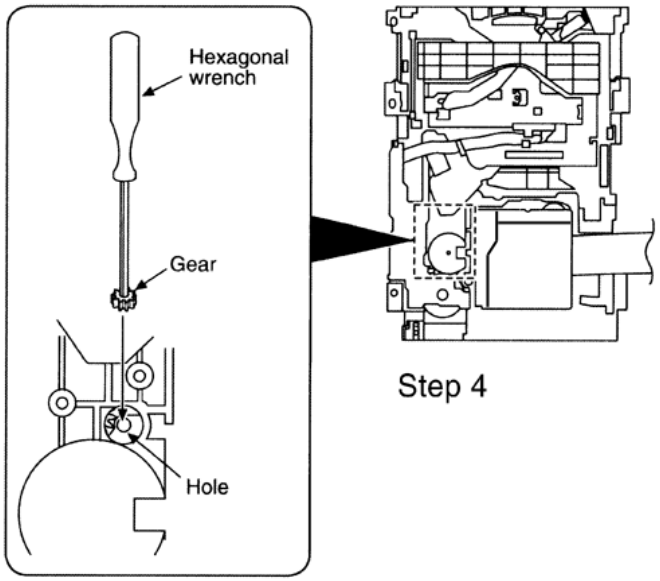


9.10. Disassembly and assembly of the Disc Tray

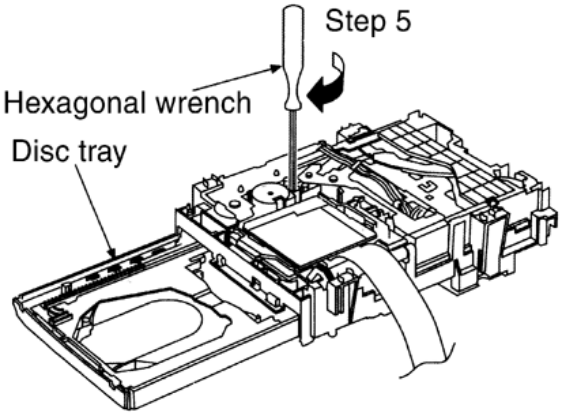


Step 2 With lifting the claw in the direction of arrow 1, draw the clamp SW P.C.B. in the direction of arrow 2.

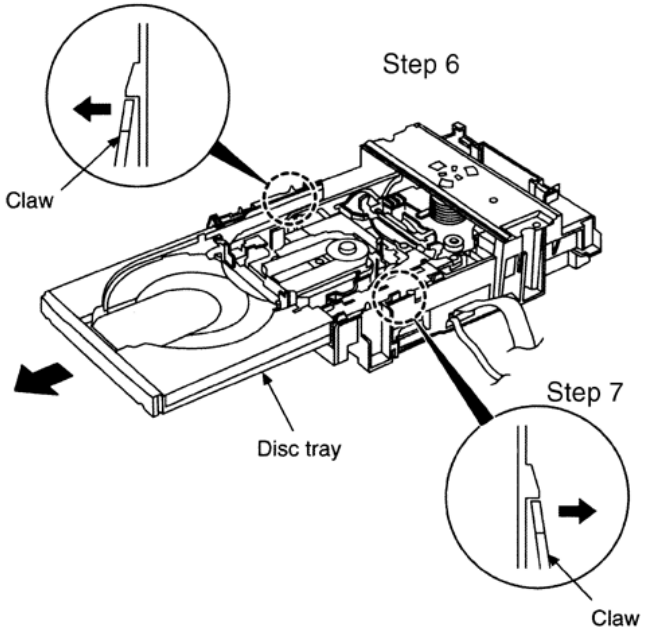
Step 3 Remove the mechanism cover.



Step 4 Insert the gear with hexagonal wrench into the hole.

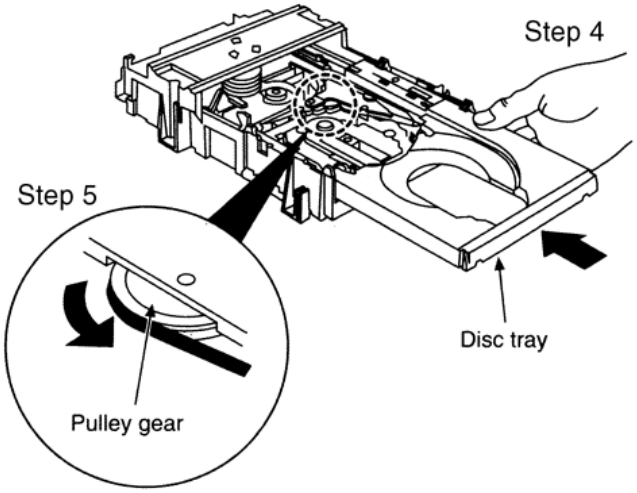


Step 5 Rotate the hexagonal wrench in the direction of arrow (clockwise), and then open the disc tray fully.



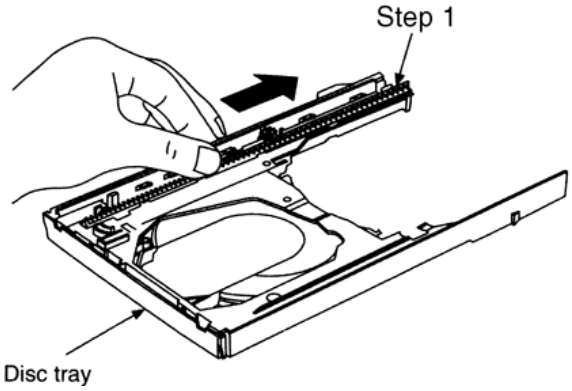
Step 6 Upset the CD changer unit again.

Step 7 Release both the claws, and then draw the disc tray.

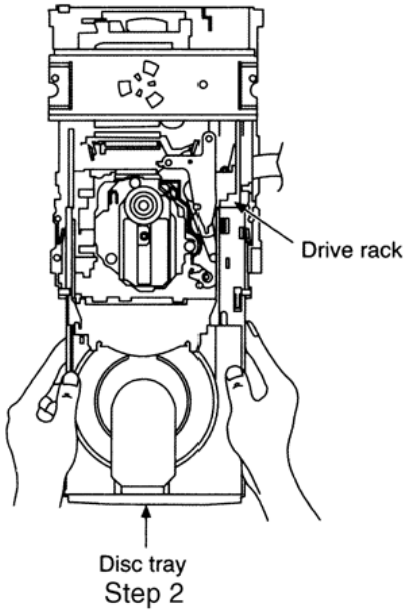


Step 8 With forcing the left guide bar manually because the left guide bar interfers with claw, draw the disc tray.

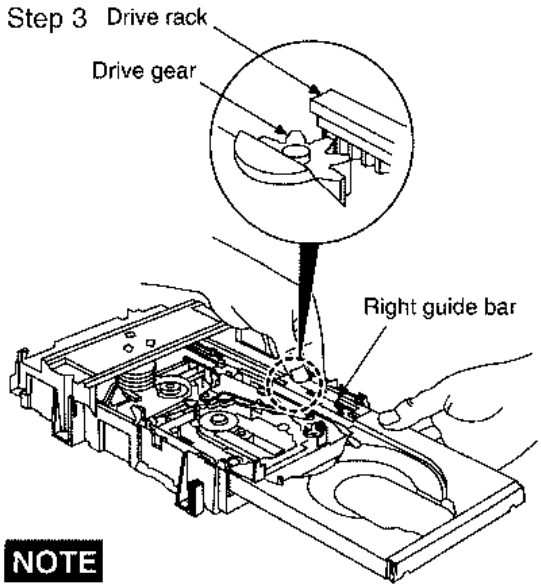
- **Installation of the disc tray after replacement**



Step 1 Slide the drive rack fully in the direction of arrow.



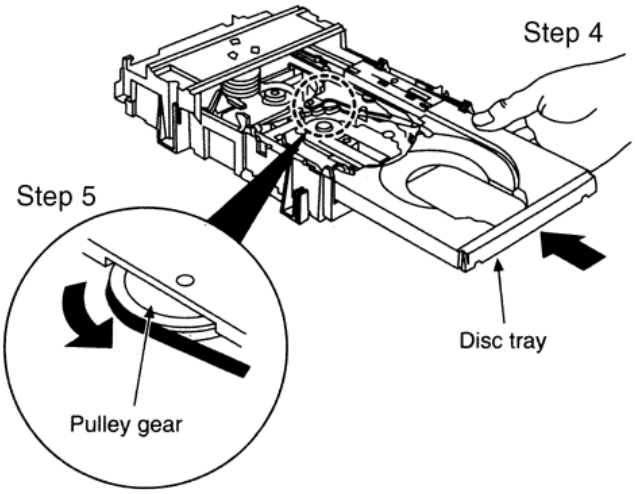
Step 2 Holding the drive rack not to move, install the disc tray.



NOTE

Force the right guide bar of tray base manually not to move upwards.

Step 3 Align the drive rack with the driver gear.



Step 4 Holding the disc tray manually, rotate the pulley gear in the direction of arrow.

Step 5 Rotate the gear 5 or 6 times manually, and then push the disc tray.

10 Measurements and Adjustments

10.1. Cassette Deck Section

- Measurement Condition
  - Reverse-mode selector switch: ⇄
  - Tape edit: NORMAL
  - Record timer: OFF
  - Make sure head, capstan and press roller are clean.
  - Judgeable room temperature 20 ± 5 °C (68 ± 9°F)
- Measuring instrument
  - EVM (Electronic Volmeter)
  - Digital quency counter
- Test Tape
  - Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
  - Tape speed gain adjustment (3 kHz, -10 dB); QZZCWAT
  - Playback gain adjustment (315 Hz, 0 dB); QZZCFM
  - CrO2 tape, QZZCRX

10.1.1. Head Azimuth Adjustment

Note :

If you wish to readjust the head azimuth, be sure to adjust with adhering the casette tape closely to the mechanism by pushing the cebter of cassette tape with your finger. (Shown in Fig. 1)

1. Connect the measuring instrument as shown in Fig. 2.
2. Replace azimuth screws for both forward and reverse direction after removing the screw-locking bond left on the head base.
3. Playback the azimuth adjustment portion(8kHz, -20dB) of test tape(QZZCFM). Adjust the azimuth adjusting screw until the outputs of the L/Rch are maximized. (Refer to Fig. 3)

   Make sure that the difference in the peak level between the left and right channels does not exceed 5dB.
4. Perform the same adjustment in reverse playback mode.

   Check of the level difference forward and reverse directions
5. Playback the playback gain adjustment portion(315Hz, 0dB) of test tape(QZZCFM). Check if level difference between forward and reverse direction is within 1.5dB.
6. After the adjustment, apply screwlock to the azimuth adjusting screw.

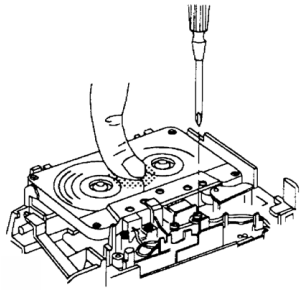


Fig. 1

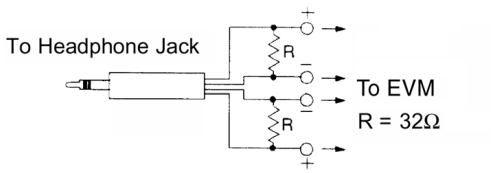


Fig. 2

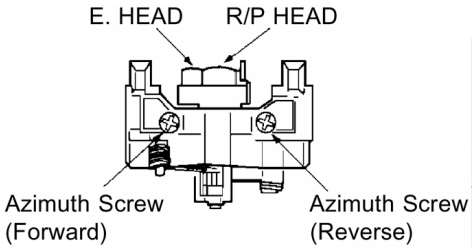
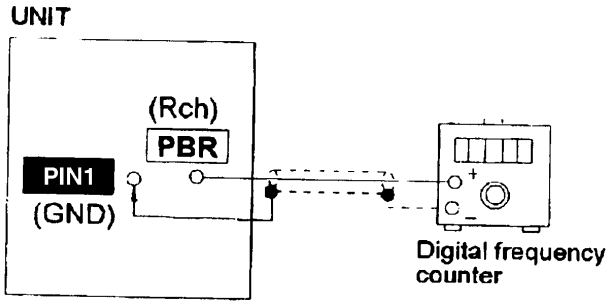


Fig. 3

10.1.2. Tape Speed Adjustment (Deck 1/2)

1. Set the tape edit button to “NORMAL” position.
2. Insert the test tape (QZZCWAT) to DECK and playback (FWD side) the middle portion of it.
3. Adjust Motor VR for the output value shown below.

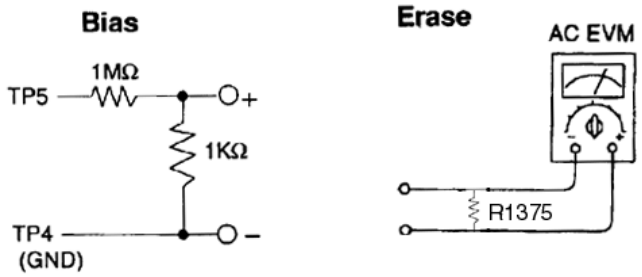
   Adjustment target: 2940 ~ 3060 Hz (NORMAL speed)
4. After alignment, assure that the output frequency of the DECK REV is within ±60 Hz respectively of the value of the output frequency of DECK FWD.



10.1.3. Bias and Erase Voltage Check

1. Set the unit “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK and the unit to “REC” mode (use “● REC/PAUSE” key).
3. Measure and make sure that the output is within the standard value.

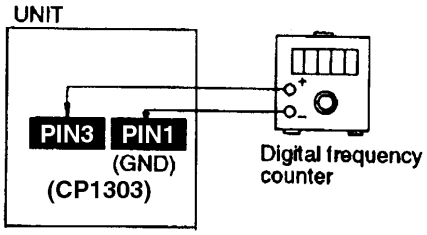
Bias voltage	16 ± 4mV (Normal)
Erase voltage for Deck 2	47mV ~ 80mV



10.1.4. Bias Frequency check

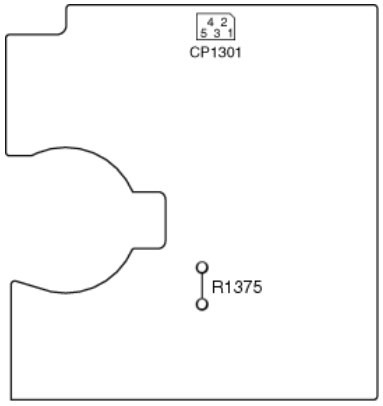
1. Set the unit to “AUX” position.
2. Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to “REC” mode (● use “REC/PAUSE” key).
3. Check so that the output frequency is within the standard value.

Standard Value: 86 ±8 kHz



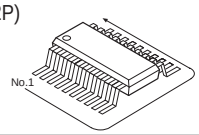
10.2. Alignment Points

Cassette Deck Section

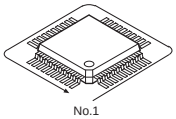


11 Illustration of ICs, Transistors and Diodes

C0JBAR000292 (14P)
C1BB00000574 (16P)
M62457AFPE1 (16P)
M62456FPE1 (24P)
NJU7313AMT2 (30P)
M5218AFPE3 (8P)
M5228FPE1 (14P)
M62444FPE1
C2BBFD000307 (42P)
C2BBFD000308 (42P)



AN8708FHK
C0FBBK000021 (48P)
MN677533MP (208P)



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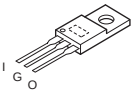

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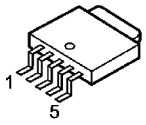

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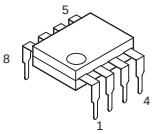

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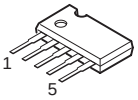

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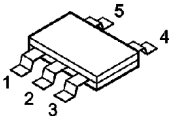

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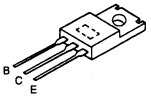
KTA1046YU



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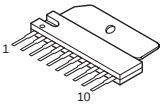

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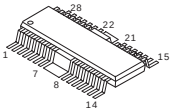

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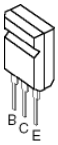

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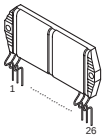

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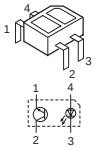

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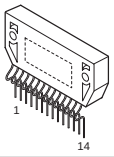

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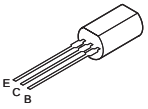

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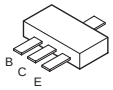

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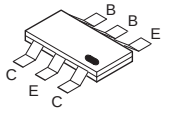

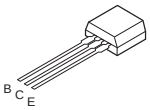

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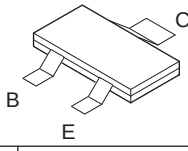

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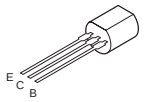

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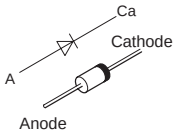

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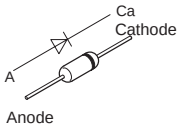

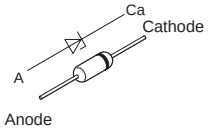

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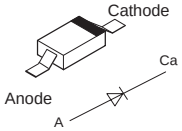

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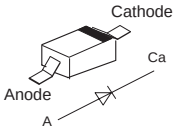

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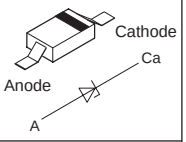

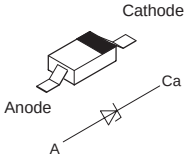

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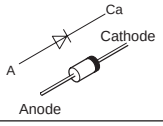

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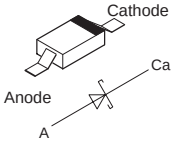

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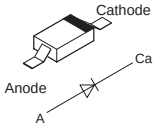

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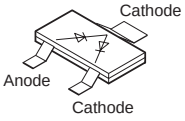

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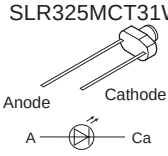

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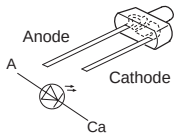

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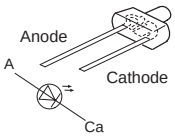
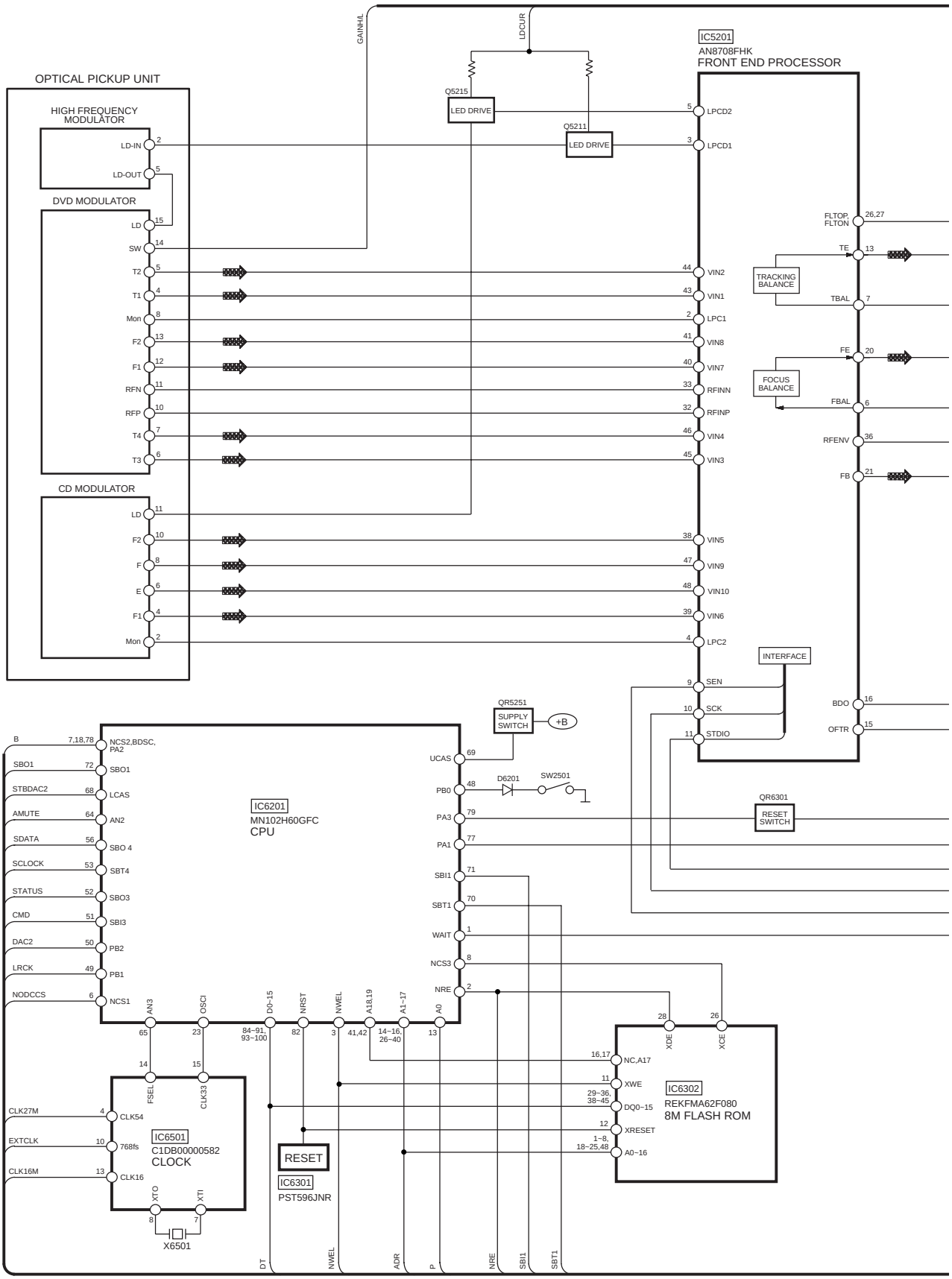


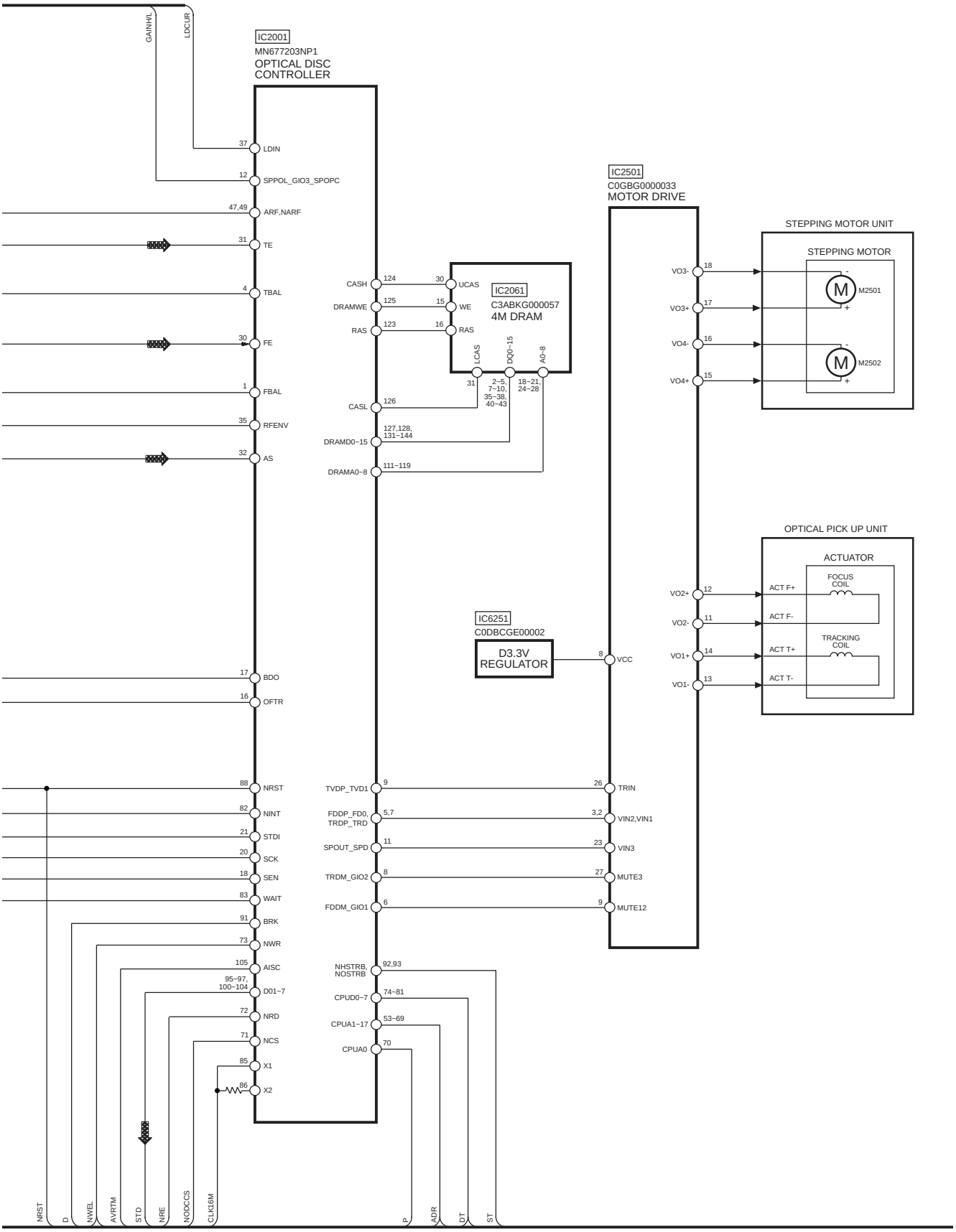
12 Terminal Function of IC's

12.1. IC601 (C2BBGF000359) System Microprocessor

Pin No.	Mark	I/O	Function
1	SER5	I/O	Searal 5 output (PLL/DSP DA)
2	MK_IN2	I/O	Mech condition input 2 (TPS/PHOTO)
3	MK_IN1	I/O	Mech condition input 1 (HALF/MODE/R_INHF/R_INHR)
4	KEY 3	I/O	Key 3 input
5	KEY 2	I/O	Key 2 input
6	KEY 1	I/O	Key 1 input
7	JOG1B	I/O	JOG 1 input B Main Volume
8	JOG1A	I/O	JOG 1 input A Main Volume
9	SP_IN	I/O	Speana input
10	SP_A	I/O	Speana control output A
11	AP_B	I/O	Speana control output B
12	SP_C	I/O	Speana control output C
13	N.C.	I/O	No use
14	N.C.	I/O	No use
15	N.C.	I/O	No use
16	SER9	I/O	Searal 9 output (Echo LA)
17	VSS	-	Ground
18	RESET	I	RESET input (Active L)
19	XCOUT	I/O	32.768 kHz sub clock
20	XCIN	I/O	32.768 kHz sub clock
21	VSS	-	Ground (0V)
22	XIN	I	4.00 MHz main clock
23	XOUT	O	4.00 MHz main clock
24	VCC	-	Power supply (+5V)
25	MBP1	I/O	MPU beat proof output 1
26	MBP2	I/O	MPU beat proof output 2
27	PCONT/PCNT	I/O	PCNT output
28	N.C.	I/O	No use
29	DCDET	I/O	DCDET input
30	SER4	I/O	Searal 4 output (ROM CS)
31	RMT	I/O	Remoco input
32	SYNC	I/O	AC failure detect input
33	SER3	I/O	Searal 3 output (Exp2 CK/ROM CK)
34	SER2	I/O	Searal 2 output (Exp1CK/ROM DA)
35	SER1	I/O	Searal 1 output (EXP1/2 DA)
36	DSPRST	I/)	DSP reset output
37	DSPACK	I/O	DSP ACK input
38	SENSE	I/O	DSP sense input
39	MIC SW	I/O	MIC output sw
40	PHONE	I/O	Phone output sw
41	D0/ST	I/O	Tuner D0/ST input
42	SDIN	I/O	Tuner signal DET input
43	REGION IN/REG_IN	I/O	Region input
44-55	AND12-1/REG12-1	I/O	Grid drive output (Digit drive output)
56-88	SEG1-33	I/O	Segment drive output (Anode drive output)
89	-VP	-	Power supply (-30V)
90	MECHSI	I/O	Mecha control data input
91	MECHSO	I/O	Mecha control data output
92	MECHCK	I/O	Mecha control clock input
93	MECHRQ	I/O	Mecha con request output
94	MECHCS	I/O	Mecha control CS input
95	MECRST	I/O	Mechcon reset output
96	SER8	I/O	Searal 8 output (DSP LA)
97	AVSS	-	Analog ground (0V)
98	VREF	-	Reference for A-D
99	SER7	I/O	Searal 7 output (PLL CE)
100	SER6	I/O	Searal 6 output (PLL/DSP CK)

13 Block Diagram

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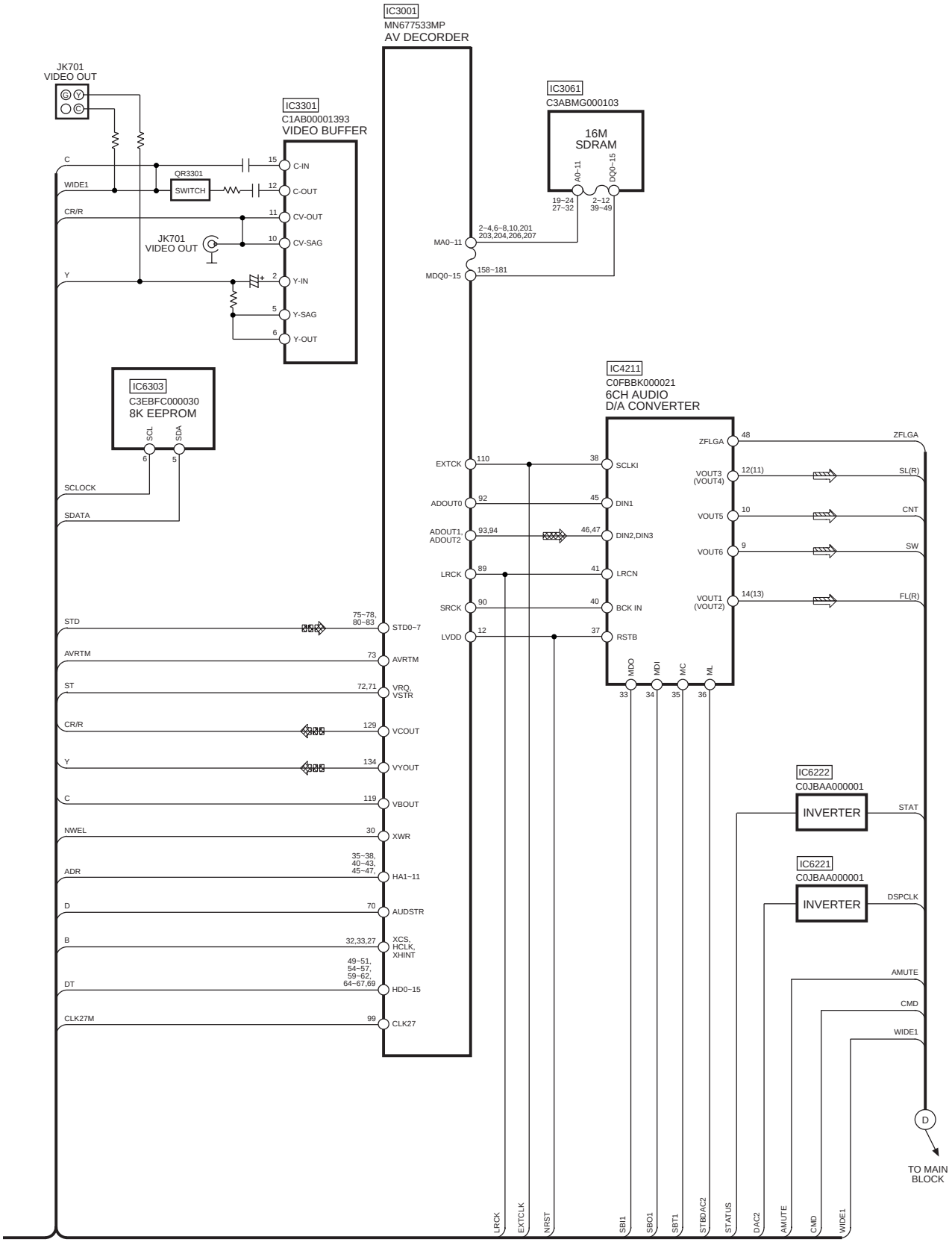
LDCUR
IC2001
MN677203NP1
OPTICAL DISC CONTROLLER
37 LDIN
12 SPPOL_GIO3_SPOPC
47,49 ARF,NARF
31 TE
4 TBAL
30 FE
1 FBAL
35 RFENV
32 AS
17 BDO
16 OFTR
88 NRST
82 NINT
21 STDI
20 SCK
18 SEN
83 WAIT
91 BRK
73 NWR
105 AISC
95–97, 100–104 D01–7
72 NRD
71 NCS
85 X1
86 X2
CASH 124
DRAMWE 125
RAS 123
CASL 126
DRAMD0–15 127,128, 131–144
DRAMA0–8 111–119
IC2061
C3ABKG000057
4M DRAM
UCAS 30
WE 15
RAS 16
LCAS 31
DQ0–15 2–5, 7–10, 35–38, 40–43
A0–8 18–21, 24–28
IC6251
C0DBCGE00002
D3.3V REGULATOR
8 VCC
TVDP_TVD1 9
FDDP_FD0, TRDP_TRD 5,7
SPOUT_SPD 11
TRDM_GIO2 8
FDDM_GIO1 6
NHSTRB, NOSTRB 92,93
CPUD0–7 74–81
CPUA1–17 53–69
CPUA0 70
IC2501
C0GBG0000033
MOTOR DRIVE
26 TRIN
3,2 VIN2,VIN1
23 VIN3
27 MUTE3
9 MUTE12
VO3- 18
VO3+ 17
VO4- 16
VO4+ 15
STEPPING MOTOR UNIT
STEPPING MOTOR
M2501
M2502
VO2+ 12
VO2- 11
VO1+ 14
VO1- 13
OPTICAL PICK UP UNIT
ACTUATOR
FOCUS COIL
TRACKING COIL
ACT F+
ACT F-
ACT T+
ACT T-
NRST
D
NWEL
AVRTM
STD
NRE
NODCCS
CLK16M
P
ADR
DT
ST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MN677533MP
AV DECORDER
JK701
VIDEO OUT
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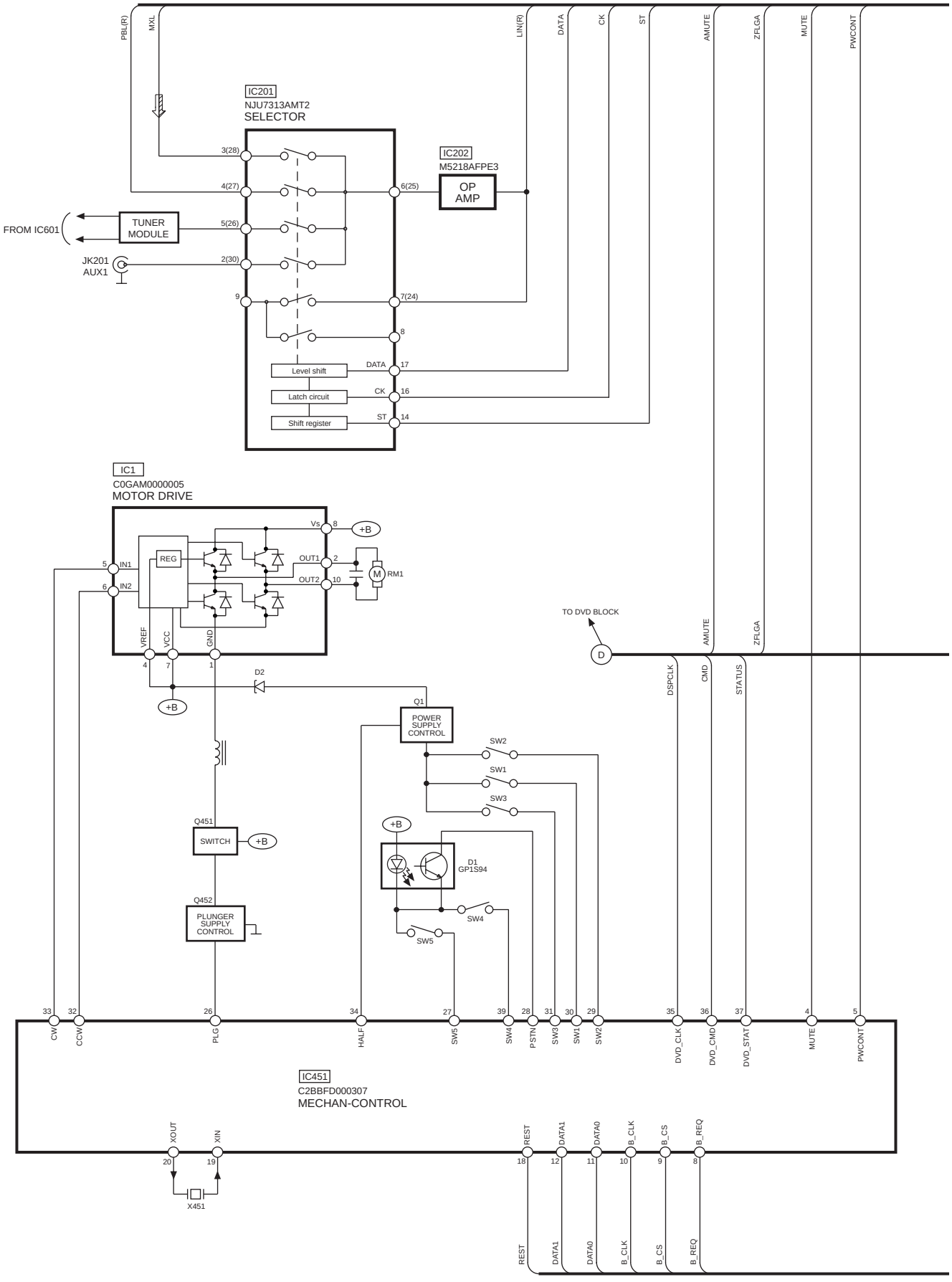
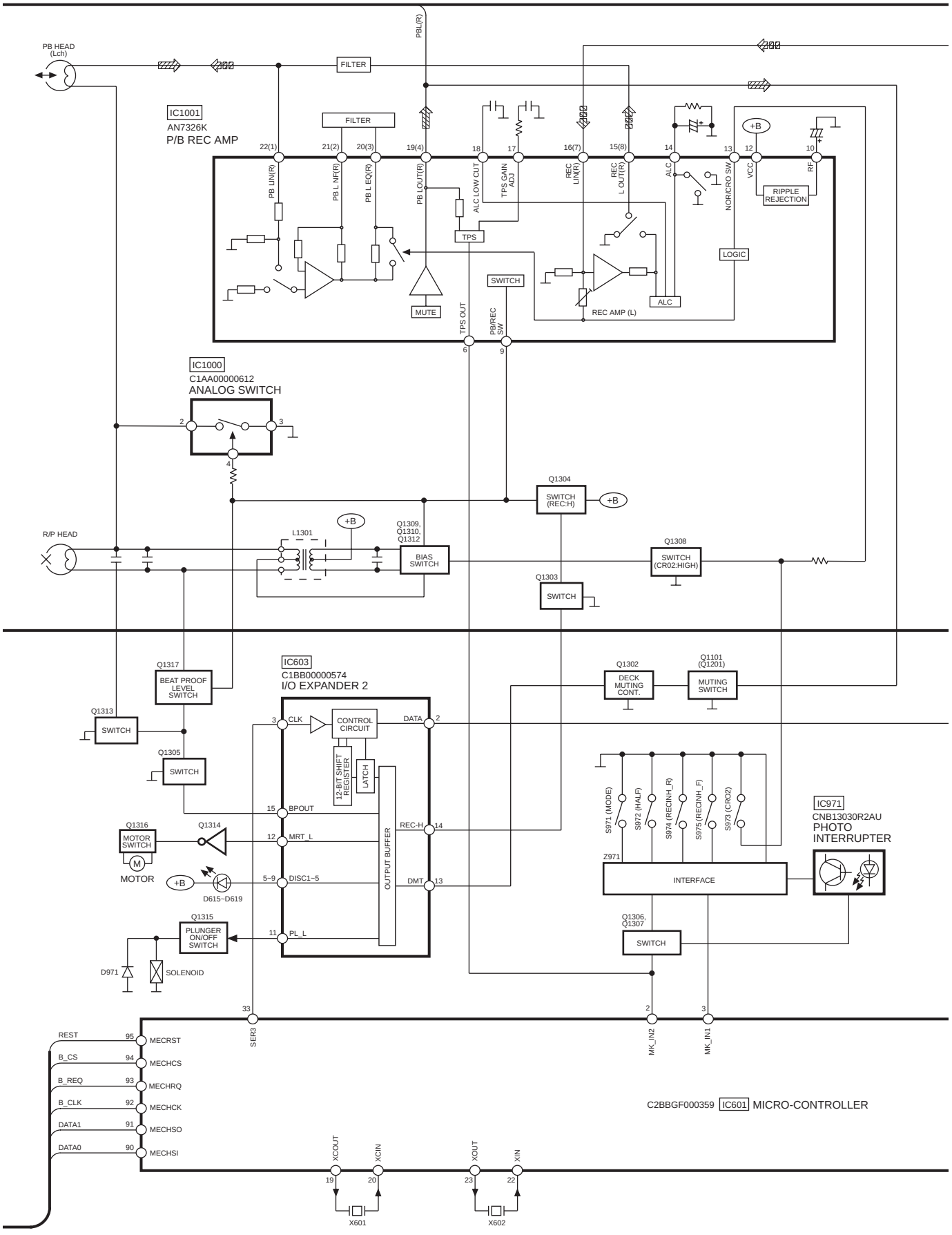
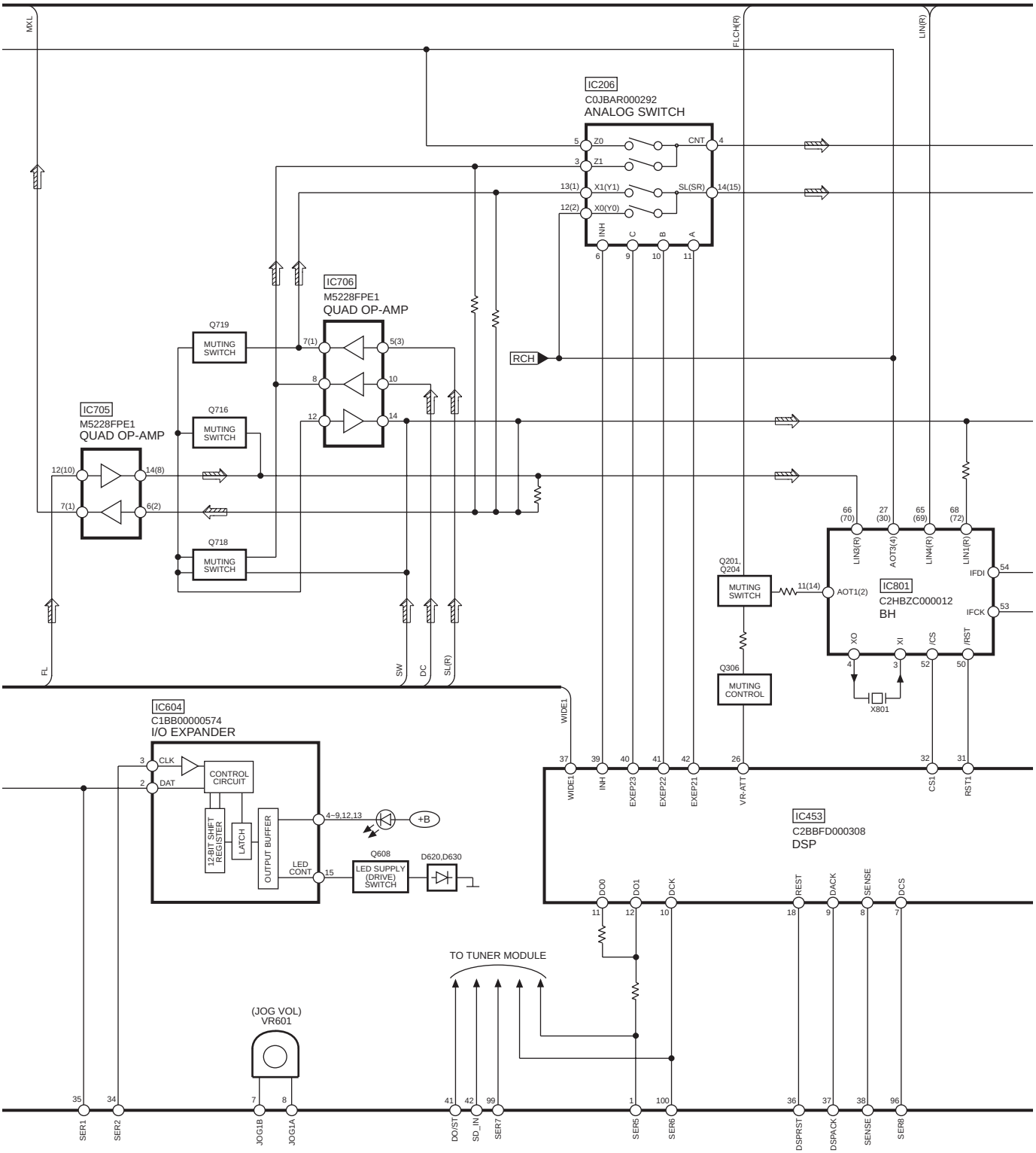
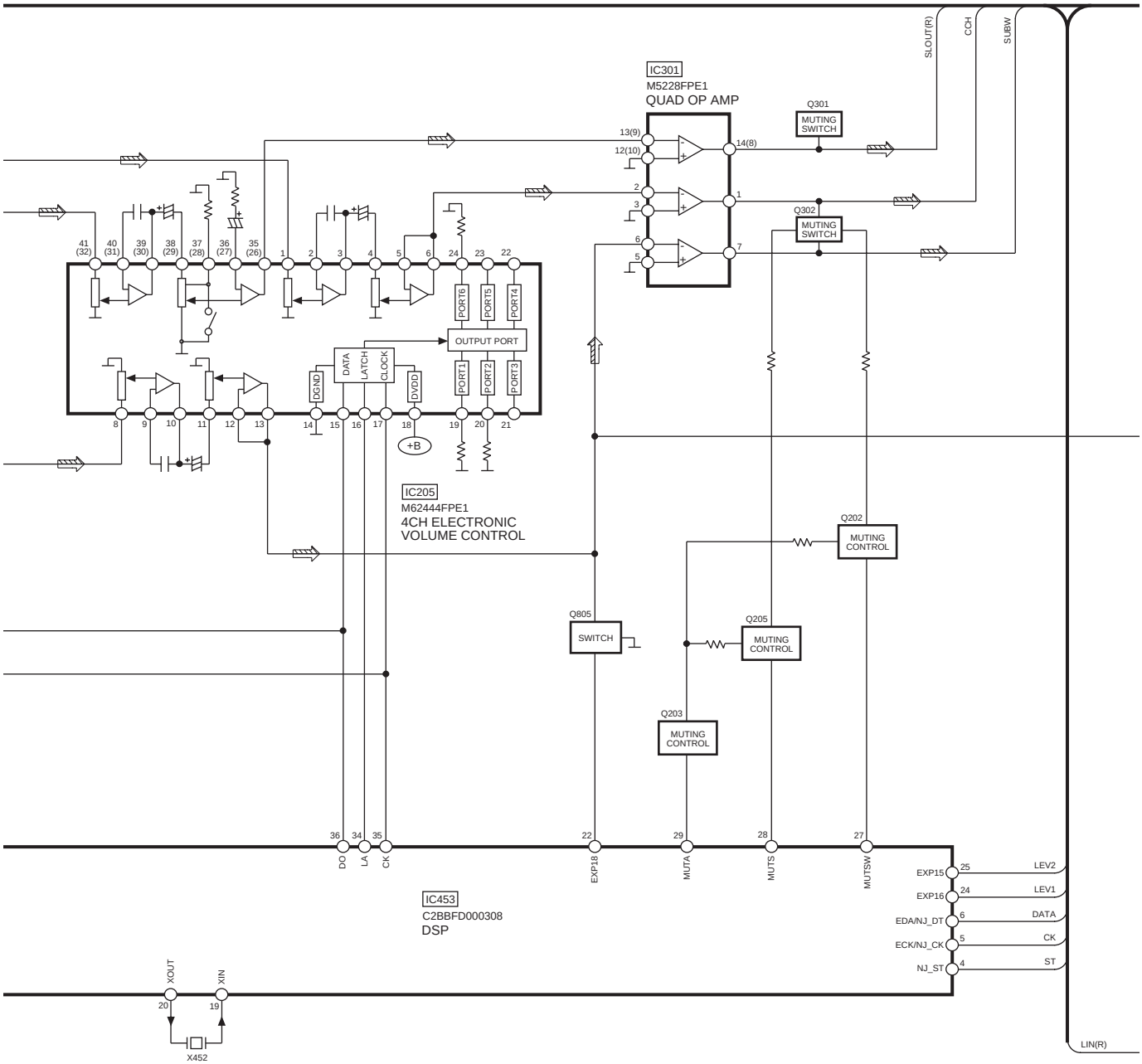
VIDEO BUFFER
C-IN
C-OUT
CV-OUT
CV-SAG
Y-IN
Y-SAG
Y-OUT
QR3301
SWITCH
IC3061
C3ABMG000103
16M
SDRAM
IC6303
C3EBFC000030
8K EEPROM
SCL
SDA
SCLOCK
SDATA
IC4211
C0FBBK000021
6CH AUDIO
D/A CONVERTER
ZFLGA
SL(R)
CNT
SW
FL(R)
IC6222
C0JBAA000001
INVERTER
STAT
IC6221
C0JBAA000001
INVERTER
DSPCLK
AMUTE
CMD
WIDE1
TO MAIN
BLOCK

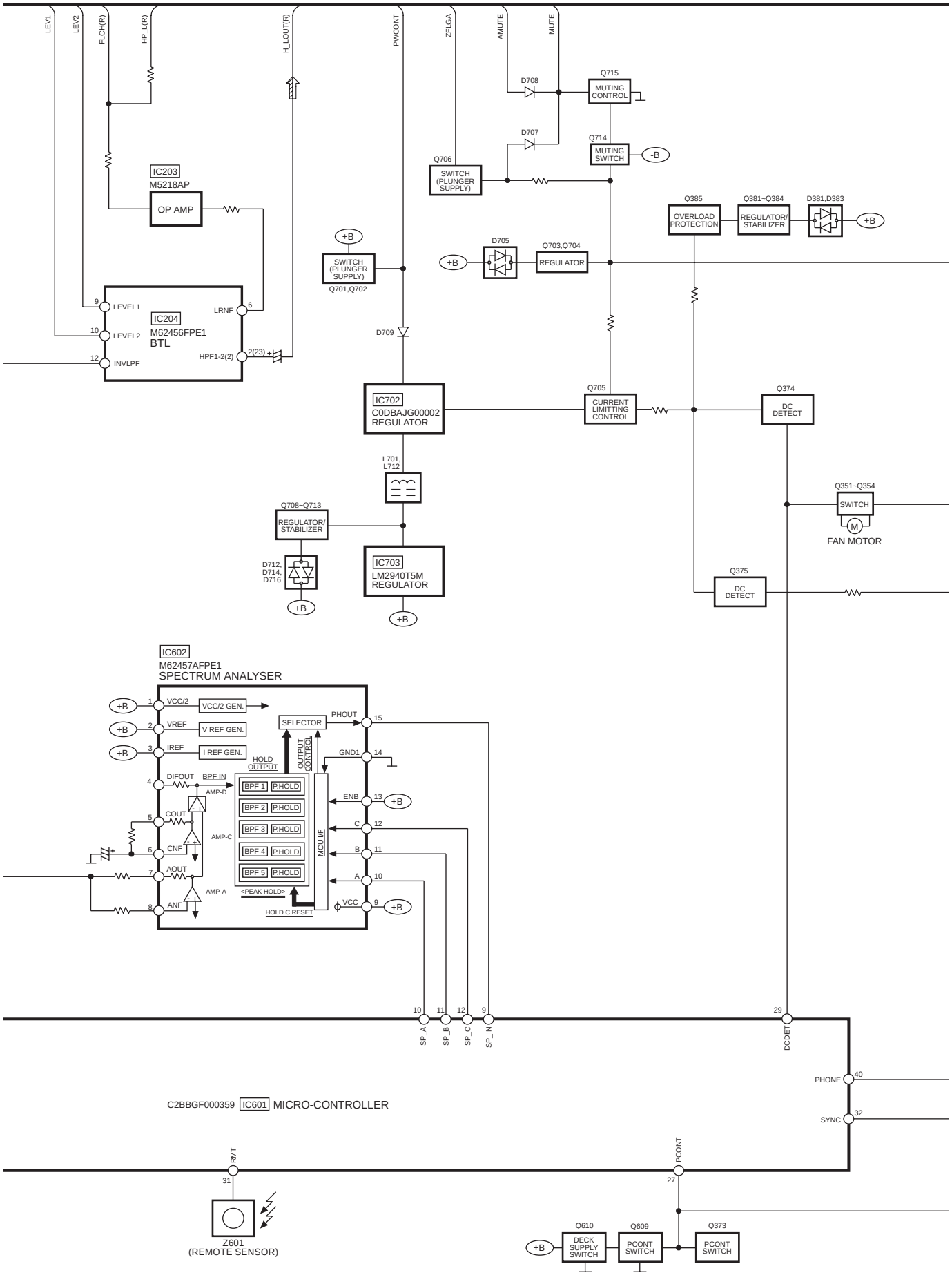

PBL(R)
MXL
LIN(R)
DATA
CK
ST
AMUTE
ZFLGA
MUTE
PWCONT
IC201
NJU7313AMT2
SELECTOR
IC202
M5218AFPE3
OP AMP
TUNER MODULE
FROM IC601
JK201
AUX1
Level shift
Latch circuit
Shift register
IC1
C0GAM0000005
MOTOR DRIVE
REG
IN1
IN2
OUT1
OUT2
RM1
VREF
VCC
GND
Vs
+B
D2
Q1
POWER SUPPLY CONTROL
SW1
SW2
SW3
SW4
SW5
Q451
SWITCH
Q452
PLUNGER SUPPLY CONTROL
D1
GP1S94
TO DVD BLOCK
DSPCLK
CMD
STATUS
CW
CCW
PLG
HALF
PSTN
DVD_CLK
DVD_CMD
DVD_STAT
IC451
C2BBFD000307
MECHAN-CONTROL
XOUT
XIN
X451
REST
DATA1
DATA0
B_CLK
B_CS
B_REQ

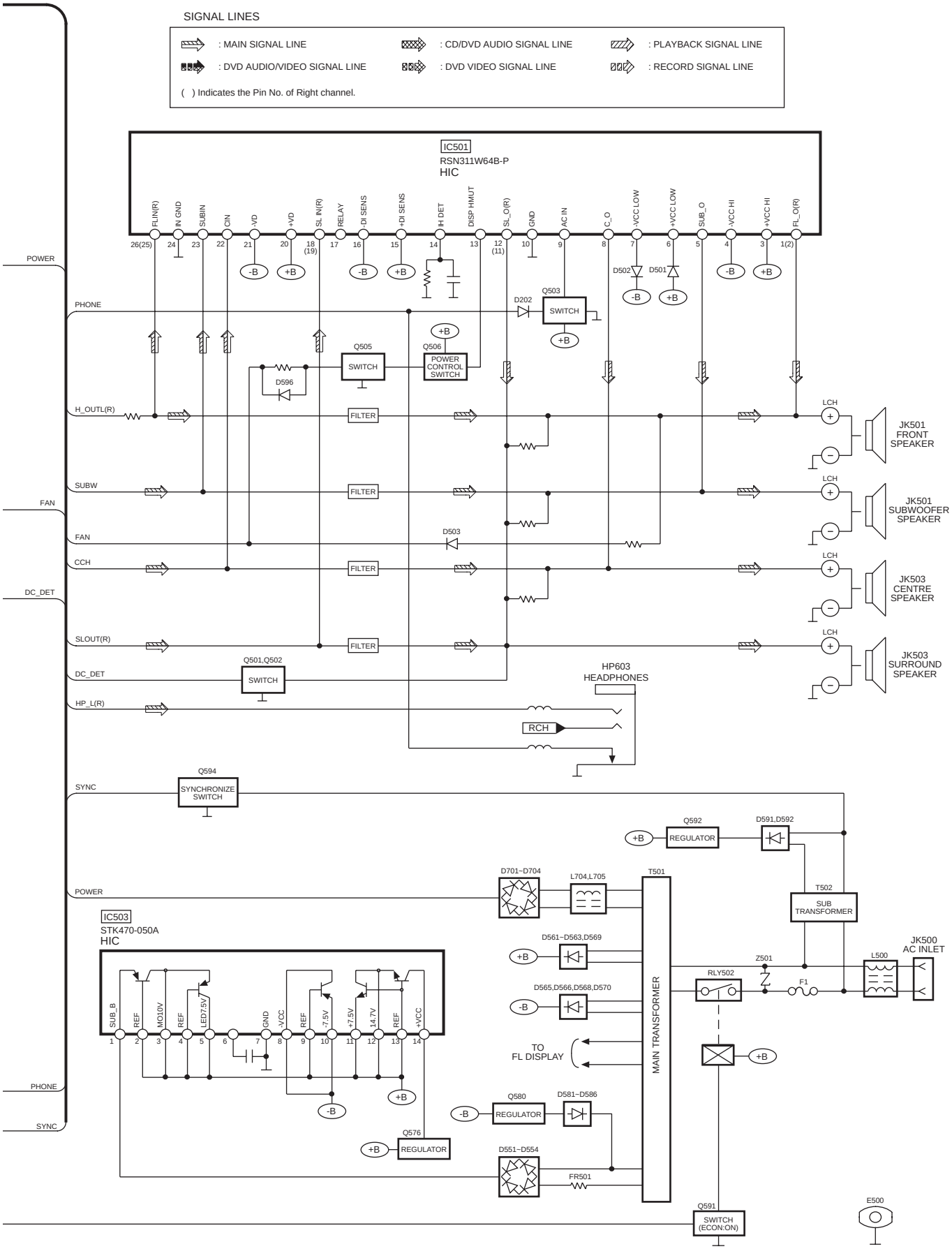

PB HEAD (Lch)
PBL(R)
FILTER
IC1001
AN7326K
P/B REC AMP
22(1)
21(2)
20(3)
19(4)
18
17
16(7)
15(8)
14
13
12
10
PB LIN(R)
PB L NF(R)
PB L EQ(R)
PB L OUT(R)
ALC LOW CUT
TPS GAIN ADJ
REC LIN(R)
REC L OUT(R)
ALC
NOR/CRO SW
VCC
RF
+B
RIPPLE REJECTION
TPS
LOGIC
SWITCH
MUTE
TPS OUT
PB/REC SW
REC AMP (L)
ALC
6
9
IC1000
C1AA00000612
ANALOG SWITCH
2
3
4
Q1304
SWITCH (REC:H)
+B
R/P HEAD
L1301
+B
Q1309, Q1310, Q1312
BIAS SWITCH
Q1308
SWITCH (CR02:HIGH)
Q1303
SWITCH
Q1317
BEAT PROOF LEVEL SWITCH
IC603
C1BB00000574
I/O EXPANDER 2
Q1313
SWITCH
Q1305
SWITCH
3
CLK
CONTROL CIRCUIT
DATA
2
12-BIT SHIFT REGISTER
LATCH
15
BPOUT
Q1316
MOTOR SWITCH
Q1314
12
MRT_L
REC-H
14
M
MOTOR
+B
5–9
DISC1–5
OUTPUT BUFFER
DMT
13
D615–D619
Q1315
PLUNGER ON/OFF SWITCH
11
PL_L
D971
SOLENOID
Q1302
DECK MUTING CONT.
Q1101 (Q1201)
MUTING SWITCH
S971 (MODE)
S972 (HALF)
S974 (RECINH_R)
S975 (RECINH_F)
S973 (CRO2)
IC971
CNB13030R2AU
PHOTO INTERRUPTER
Z971
INTERFACE
Q1306, Q1307
SWITCH
33
SER3
2
MK_IN2
3
MK_IN1
REST
95
MECRST
B_CS
94
MECHCS
B_REQ
93
MECHRQ
B_CLK
92
MECHCK
DATA1
91
MECHSO
DATA0
90
MECHSI
C2BBGF000359
IC601
MICRO-CONTROLLER
XCOUT
XCIN
XOUT
XIN
19
20
23
22
X601
X602



C2BBGF000359 IC601 MICRO-CONTROLLER


IC301
M5228FPE1
QUAD OP AMP
Q301
MUTING SWITCH
Q302
MUTING SWITCH
SLOUT(R)
CCH
SUBW
IC205
M62444FPE1
4CH ELECTRONIC VOLUME CONTROL
OUTPUT PORT
DATA
LATCH
CLOCK
DGND
DVDD
PORT1
PORT2
PORT3
PORT4
PORT5
PORT6
+B
Q202
MUTING CONTROL
Q805
SWITCH
Q205
MUTING CONTROL
Q203
MUTING CONTROL
DO
LA
CK
EXP18
MUTA
MUTS
MUTSW
EXP15
EXP16
EDA/NJ_DT
ECK/NJ_CK
NJ_ST
LEV2
LEV1
DATA
CK
ST
IC453
C2BBFD000308
DSP
XOUT
XIN
X452
LIN(R)
Q601
RESET SWITCH
RESET
KEY SWITCH
KEY3
KEY1
4–6
C2BBGF000359 IC601 MICRO-CONTROLLER
REG1–REG12
SEG 2–SEG33
44–55
56–88
FL DISPLAY FL600
FROM POWER TRANSFORMER


LEV1
LEV2
FLCH(R)
HP_L(R)
H_LOUT(R)
PWCONT
ZFLGA
AMUTE
MUTE
D708
Q715
MUTING CONTROL
D707
Q714
MUTING SWITCH
-B
Q706
SWITCH (PLUNGER SUPPLY)
IC203
M5218AP
OP AMP
Q385
OVERLOAD PROTECTION
Q381–Q384
REGULATOR/ STABILIZER
D381,D383
+B
SWITCH (PLUNGER SUPPLY)
Q701,Q702
D705
Q703,Q704
REGULATOR
LEVEL1
LEVEL2
INVLPF
IC204
M62456FPE1
BTL
LRNF
HPF1-2(2)
2(23)
D709
IC702
C0DBAJG00002
REGULATOR
Q705
CURRENT LIMITTING CONTROL
Q374
DC DETECT
L701, L712
Q351–Q354
SWITCH
M
FAN MOTOR
Q708–Q713
REGULATOR/ STABILIZER
D712, D714, D716
IC703
LM2940T5M
REGULATOR
Q375
DC DETECT
IC602
M62457AFPE1
SPECTRUM ANALYSER
VCC/2
VCC/2 GEN.
VREF
V REF GEN.
IREF
I REF GEN.
SELECTOR
PHOUT
GND1
HOLD OUTPUT
OUTPUT CONTROL
DIFOUT
BPF IN
AMP-D
COUT
AMP-C
CNF
AOUT
AMP-A
ANF
BPF 1
BPF 2
BPF 3
BPF 4
BPF 5
P.HOLD
<PEAK HOLD>
HOLD C RESET
MCU I/F
ENB
C
B
A
VCC
SP_A
SP_B
SP_C
SP_IN
DCDET
PHONE
SYNC
C2BBGF000359 IC601 MICRO-CONTROLLER
RMT
PCONT
Z601
(REMOTE SENSOR)
Q610
DECK SUPPLY SWITCH
Q609
PCONT SWITCH
Q373
PCONT SWITCH


SIGNAL LINES
: MAIN SIGNAL LINE
: CD/DVD AUDIO SIGNAL LINE
: PLAYBACK SIGNAL LINE
: DVD AUDIO/VIDEO SIGNAL LINE
: DVD VIDEO SIGNAL LINE
: RECORD SIGNAL LINE
( ) Indicates the Pin No. of Right channel.
IC501
RSN311W64B-P
HIC
FLIN(R)
IN GND
SUBIN
CIN
-VD
+VD
SL IN(R)
RELAY
-DI SENS
+DI SENS
IH DET
DISP HMUT
SL_O(R)
GND
AC IN
C_O
-VCC LOW
+VCC LOW
SUB_O
-VCC HI
+VCC HI
FL_O(R)
POWER
PHONE
FAN
DC_DET
SLOUT(R)
H_OUTL(R)
SUBW
CCH
HP_L(R)
SYNC
D202
Q503
SWITCH
D502
D501
Q505
Q506
POWER CONTROL SWITCH
D596
FILTER
D503
Q501,Q502
HP603
HEADPHONES
RCH
LCH
JK501 FRONT SPEAKER
JK501 SUBWOOFER SPEAKER
JK503 CENTRE SPEAKER
JK503 SURROUND SPEAKER
Q594
SYNCHRONIZE SWITCH
IC503
STK470-050A
HIC
SUB_B
REF
MO10V
LED7.5V
GND
-VCC
-7.5V
+7.5V
14.7V
+VCC
Q592
REGULATOR
D591,D592
D701~D704
L704,L705
T501
T502
SUB TRANSFORMER
D561~D563,D569
D565,D566,D568,D570
TO FL DISPLAY
MAIN TRANSFORMER
Z501
RLY502
F1
L500
JK500 AC INLET
Q580
D581~D586
Q576
D551~D554
FR501
Q591
SWITCH (ECON:ON)
E500

14 Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S601 : DPL Switch
S602 : SSS Switch
S603 : 3D AI Switch
S604 : Preset EQ Switch
S605 : Amazing Switch
S606 : Super Woofer Switch
S607 : Tape Eject Switch
S610 : FM Mode/Rev Mode Switch
S611 : Rec/Stop Switch
S612 : Display/Demo/Dimm Switch
S613 : Clock/Timer Switch
S614 : Play/Rec Switch
S615 : Selector Switch
S616 : Tune Mode Switch
S617 : DVD/CD Switch
S618 : Tuner / Band Switch
S619 : Tape Switch
S620 : Volume (-) Switch
S621 : Volume (+) Switch
S622 : Memory Switch
S623 : Power Switch
S625 : Manager Switch
S626 : Disc 1 Switch
S627 : Disc 2 Switch
S628 : Disc 3 Switch
S629 : Disc 4 Switch
S630 : Disc 5 Switch
S631 : Cinema Switch
S632 : Open/Close Switch
S971 : Switch Mode
S972 : Switch Half
S973 : Switch CR02
S974 : Switch RECINH_R
S975 : Switch RECINH_F
SW1 : Switch Push
SW2 : Switch Push
SW3 : Switch
SW4 : Switch CD
SW5 : Switch Lock
SW2501 : Switch
VR600 : Volume Jog

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

(( )) : CD < > : FM

- **Importance safety notice :**

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer´s specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

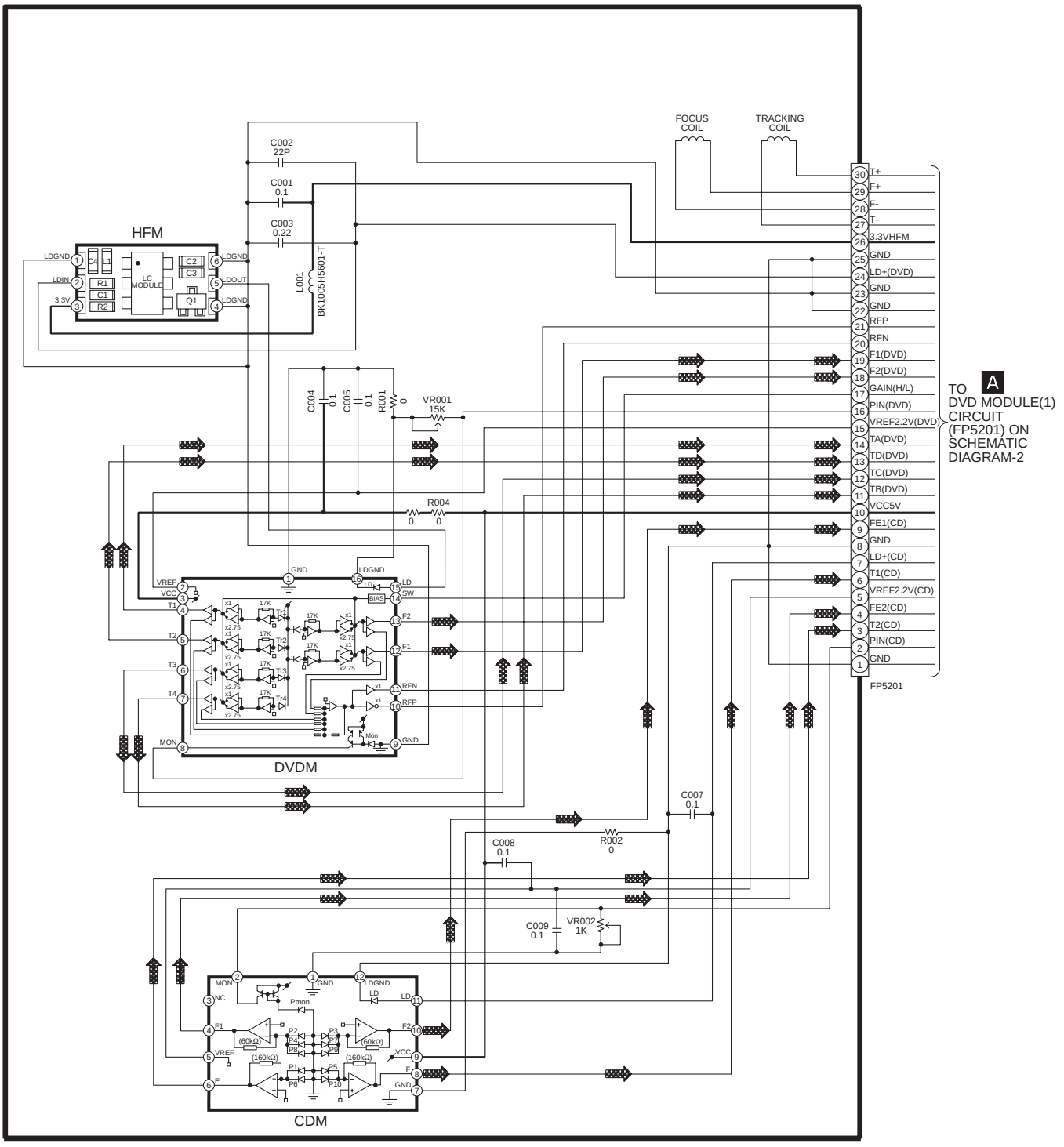
- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

SCHEMATIC DIAGRAM-1

OPTICAL PICKUP UNIT

: +B SIGNAL LINE

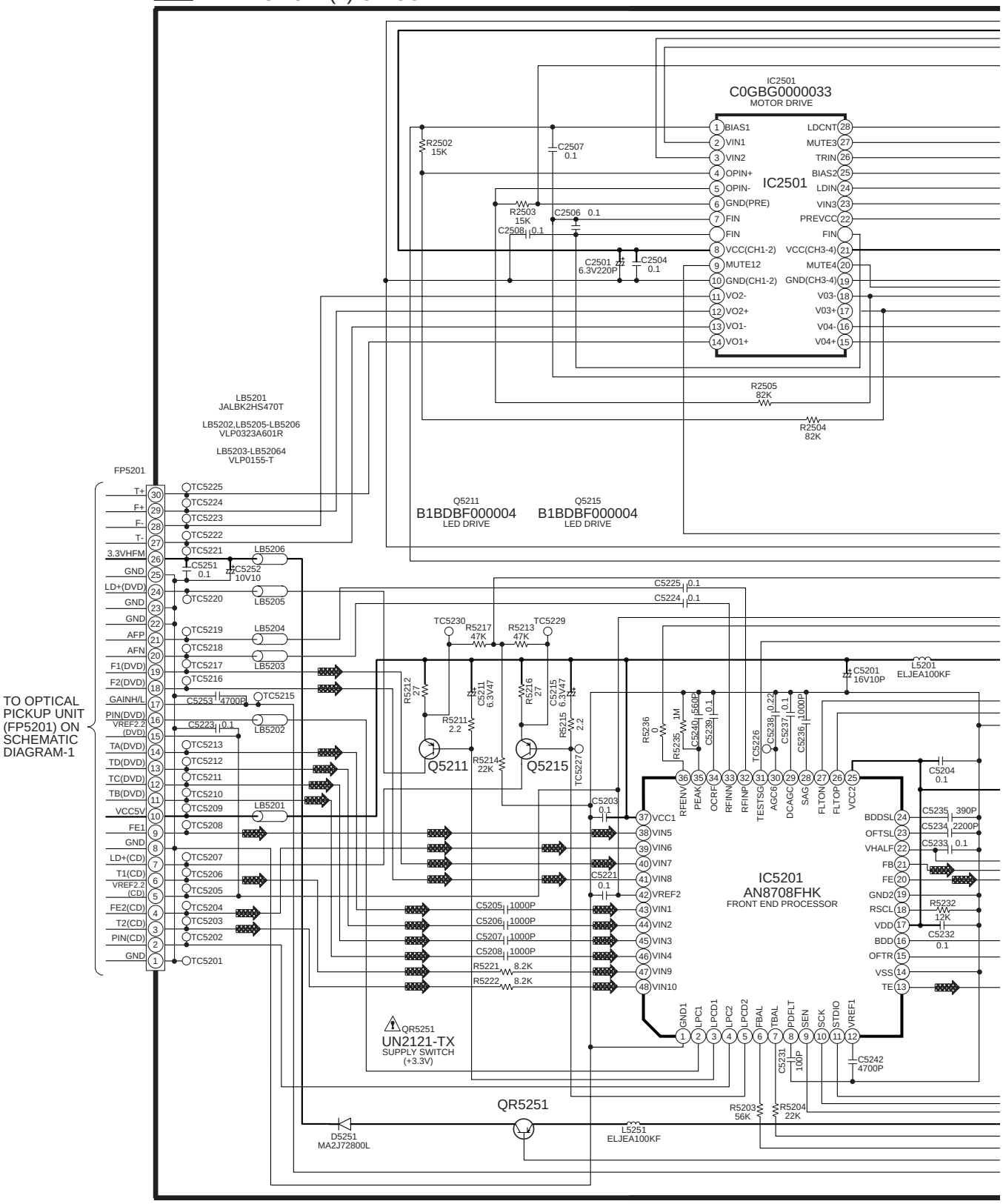
: CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-2

A DVD MODULE(1) CIRCUIT

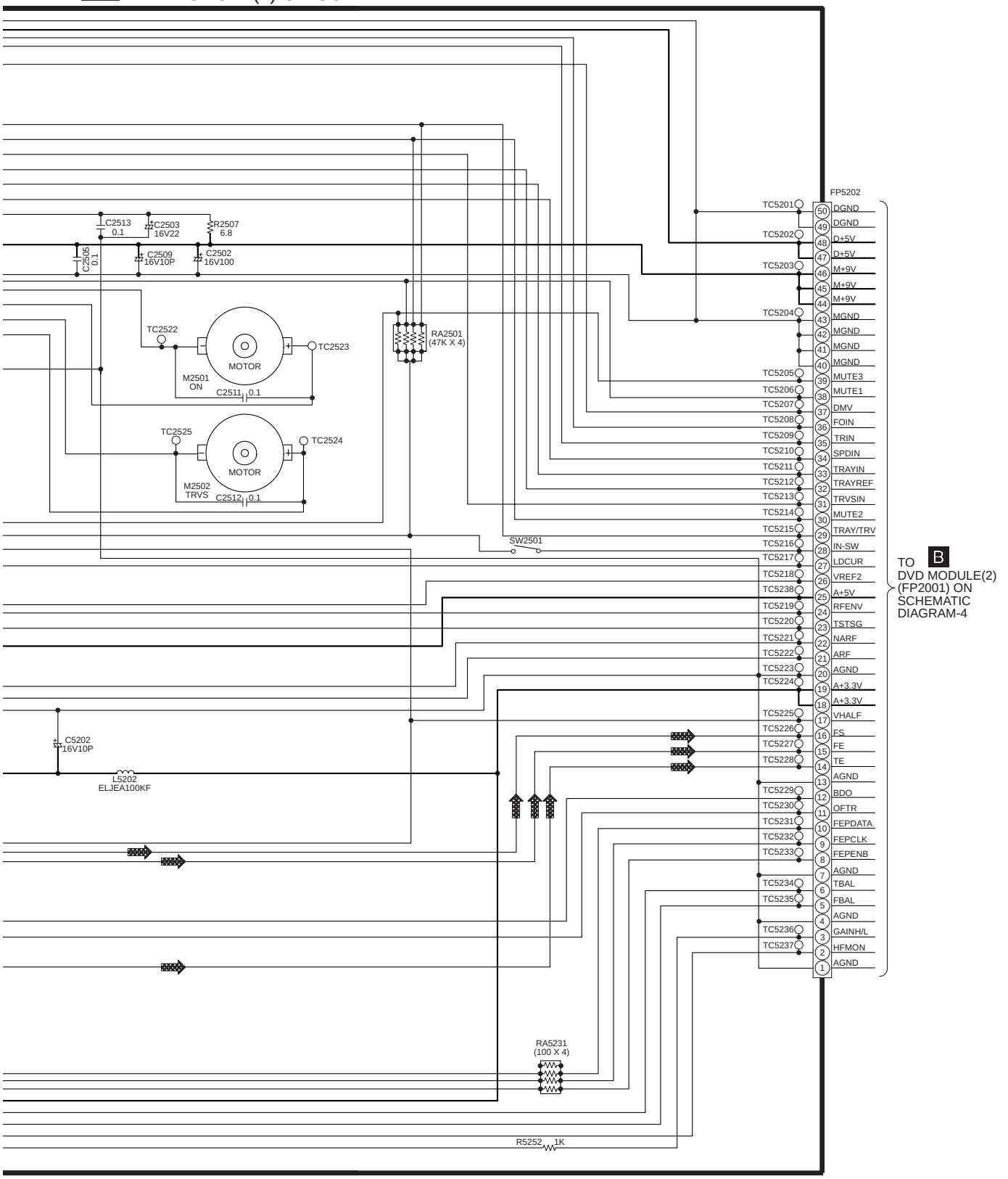
: +B SIGNAL LINE
: CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-3

A DVD MODULE(1) CIRCUIT

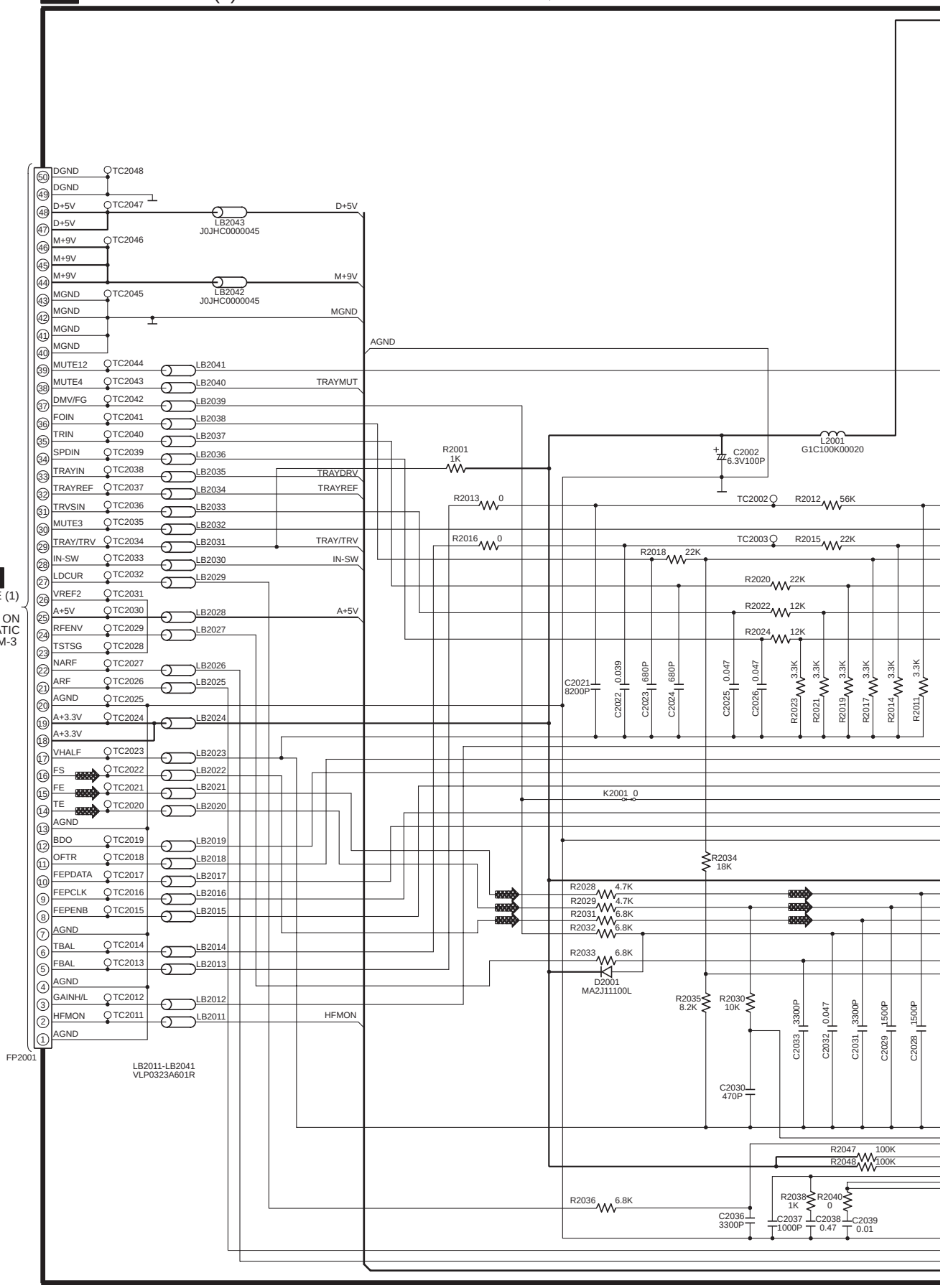
: +B SIGNAL LINE
: CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-4

B DVD MODULE (2) CIRCUIT

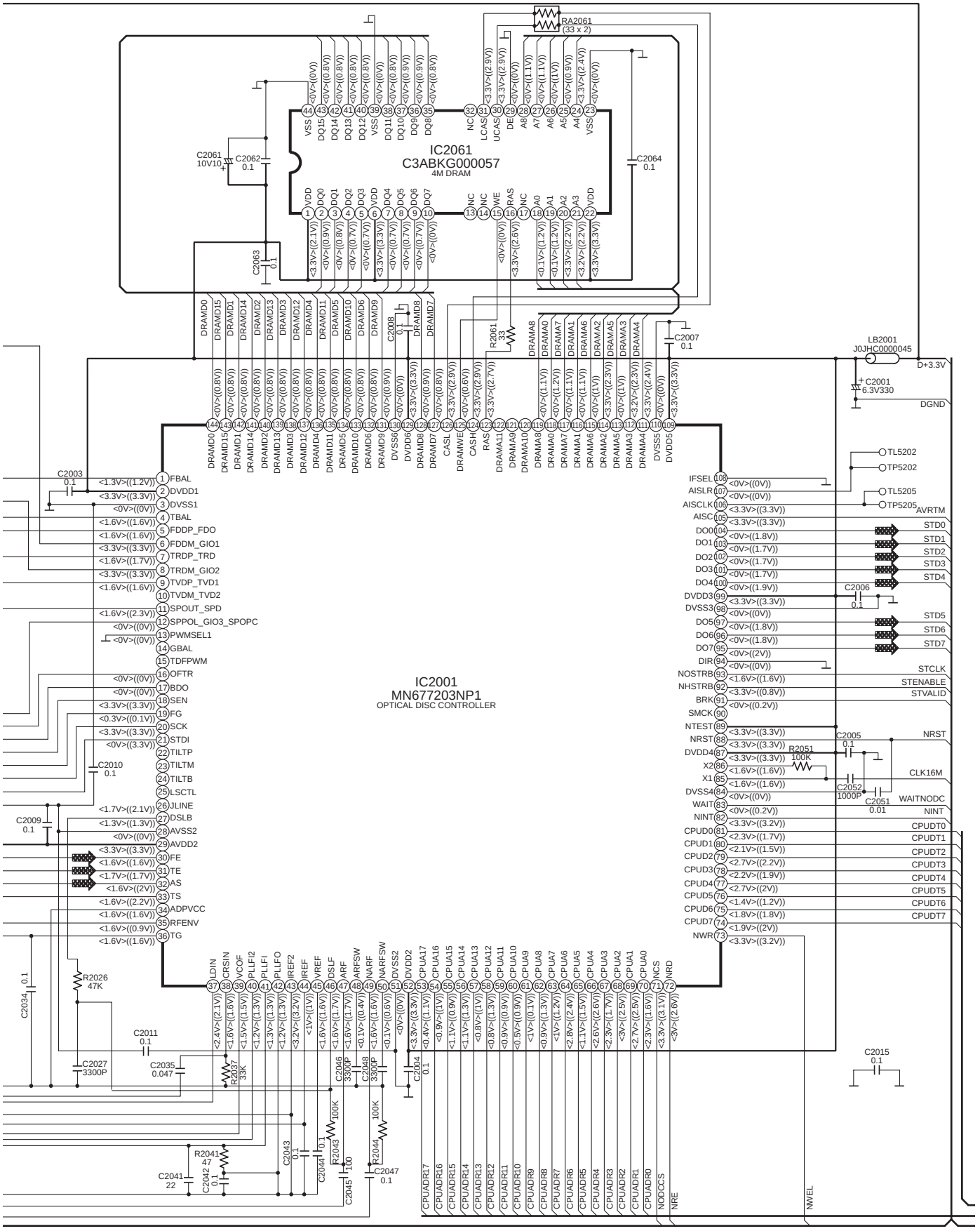
——— : +B SIGNAL LINE ▶▶▶ : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-5

B DVD MODULE (2) CIRCUIT

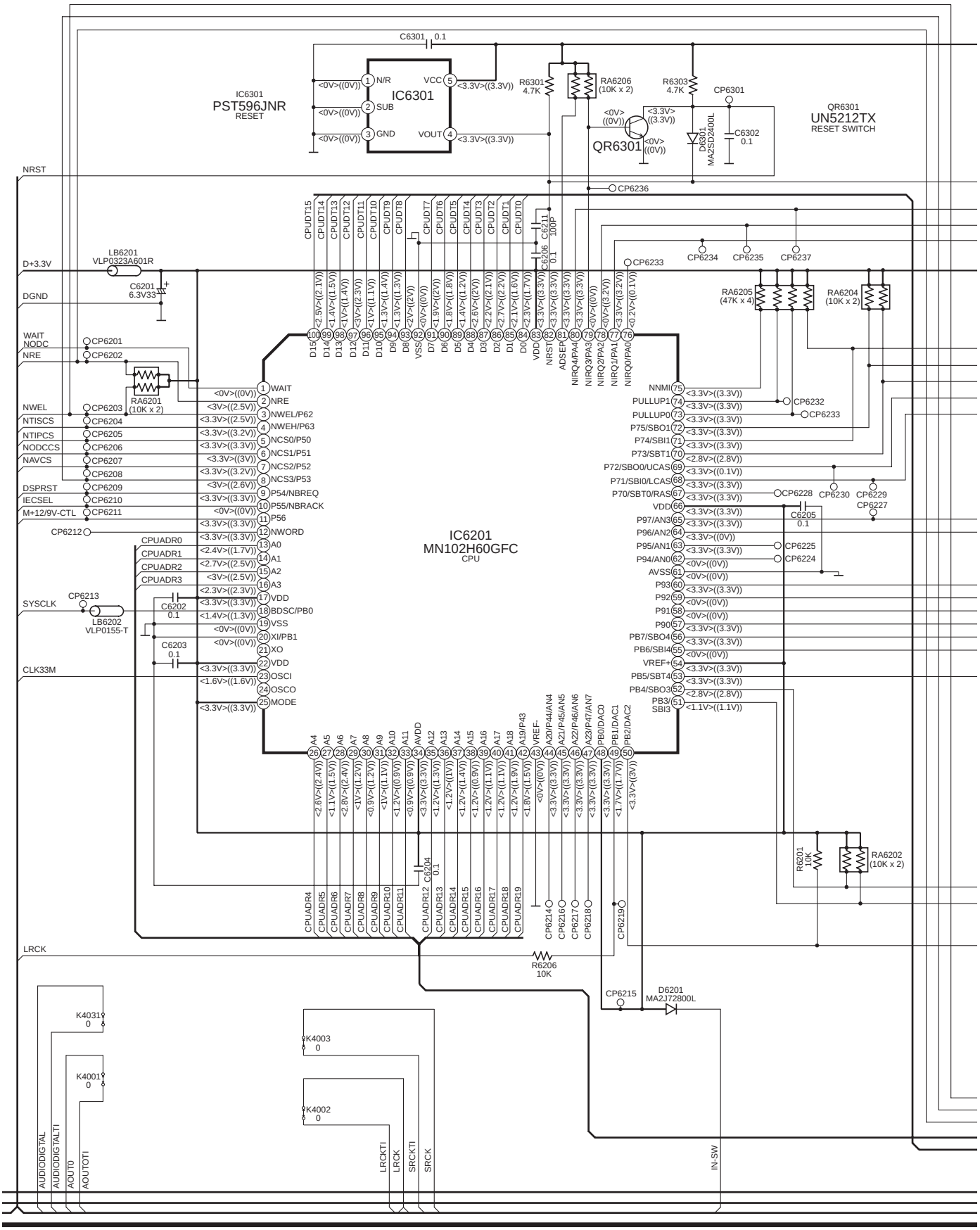
: +B SIGNAL LINE : CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-6

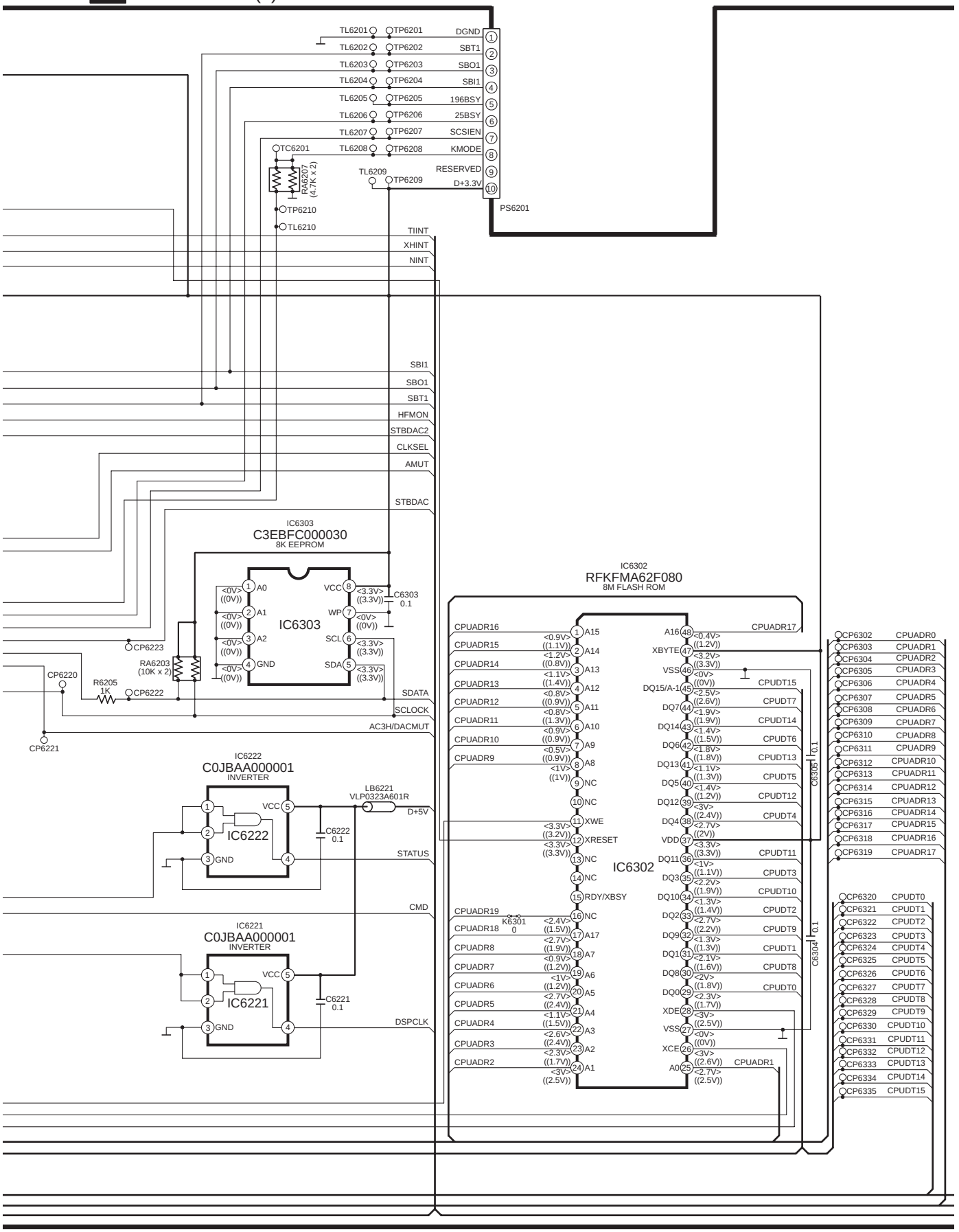
B DVD MODULE (2) CIRCUIT

: +B SIGNAL LINE



SCHEMATIC DIAGRAM-7

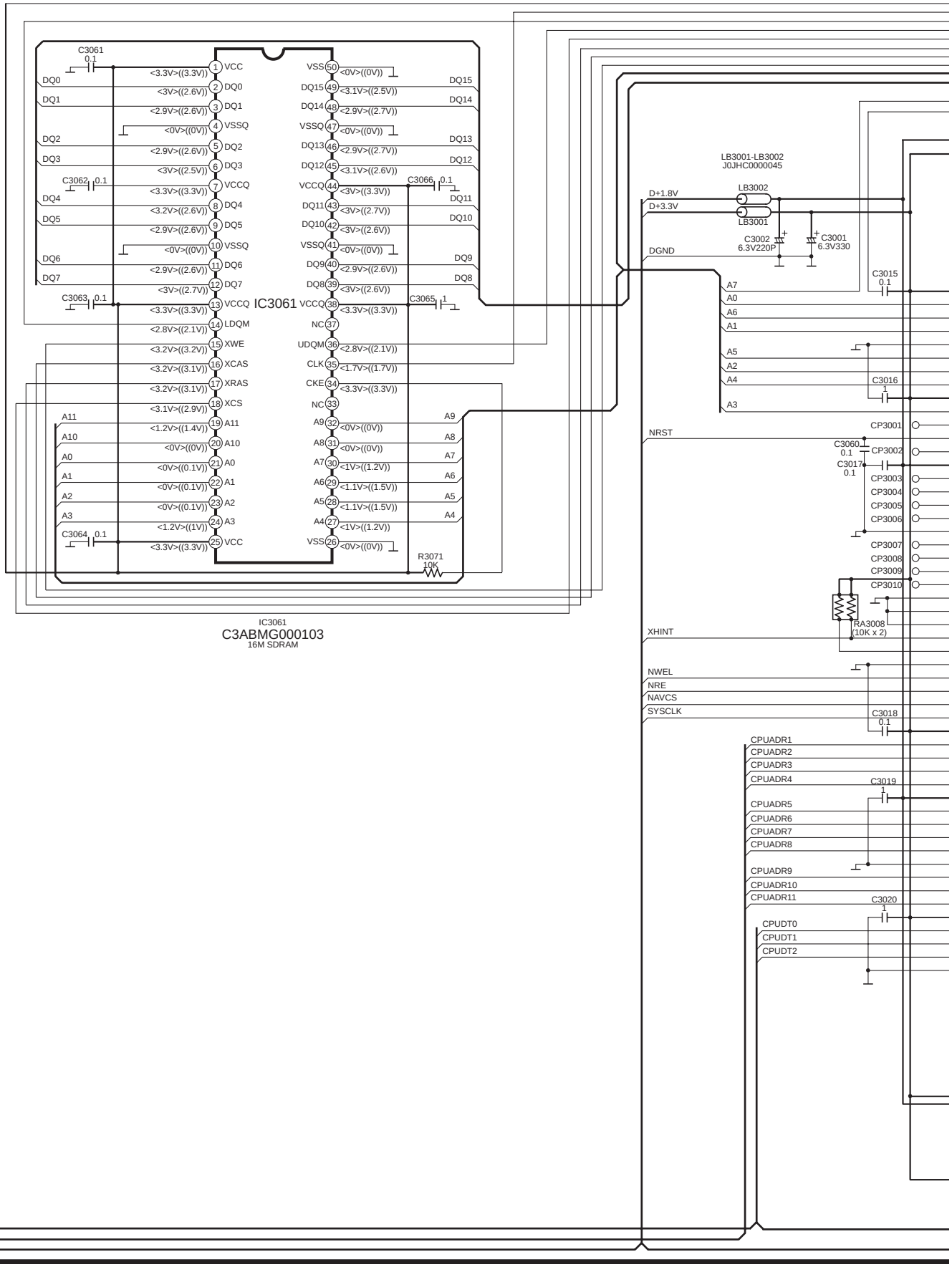
B DVD MODULE (2) CIRCUIT ——— : +B SIGNAL LINE



SCHEMATIC DIAGRAM-8

B DVD MODULE (2) CIRCUIT

——— : +B SIGNAL LINE



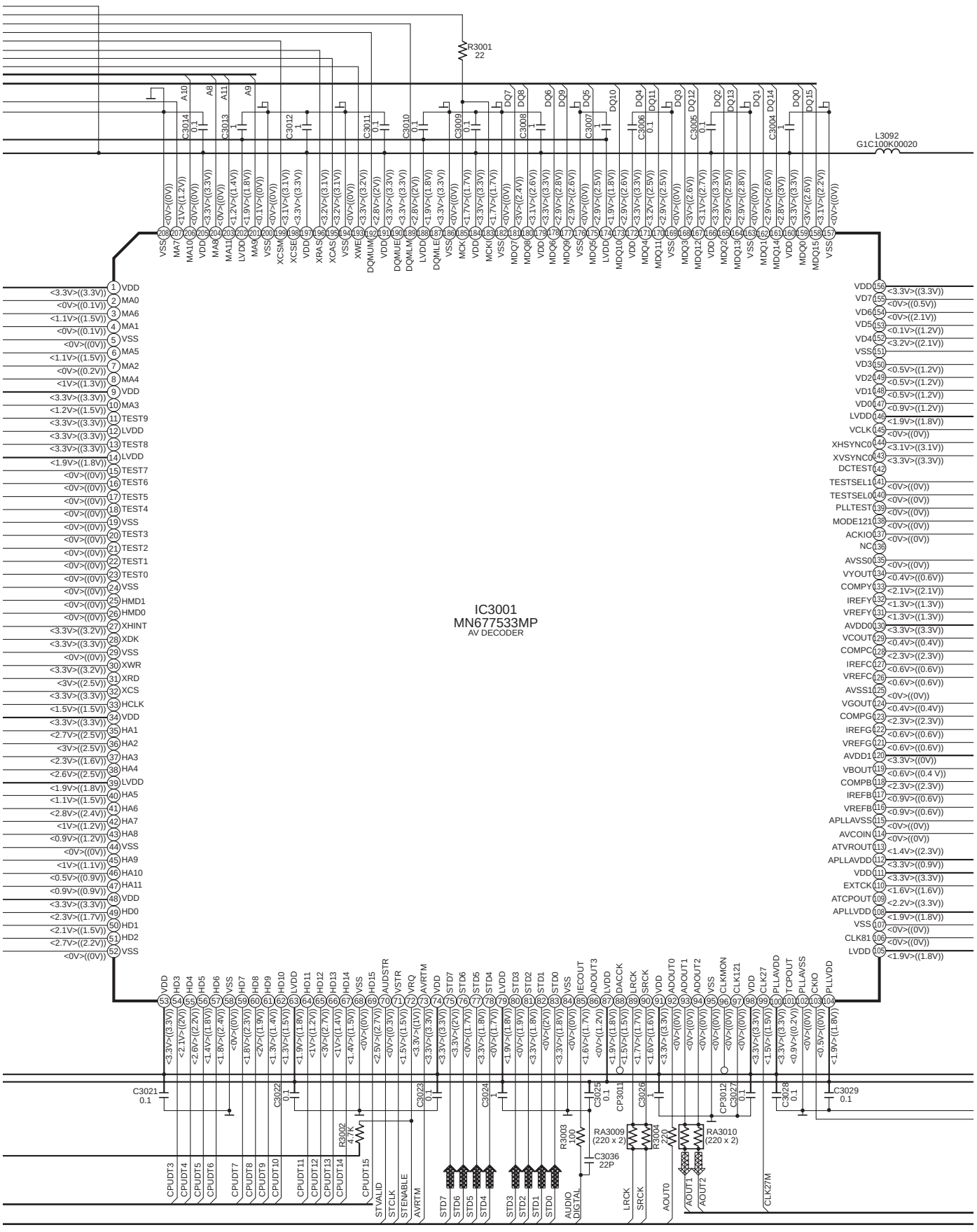
SCHEMATIC DIAGRAM-9

B DVD MODULE (2) CIRCUIT

: +B SIGNAL LINE

: DVD(AUDIO) SIGNAL LINE

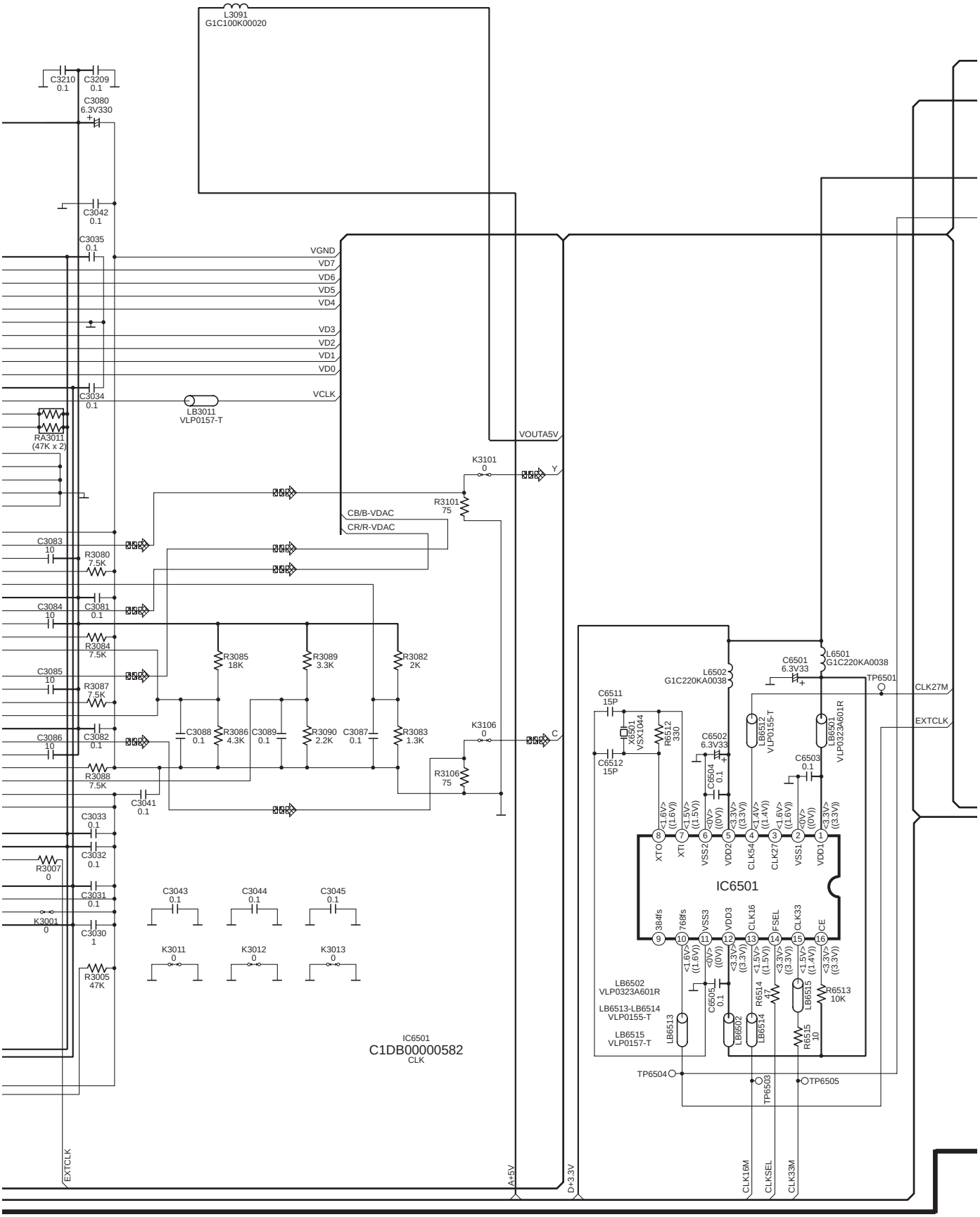
: CD-DA SIGNAL LINE



SCHEMATIC DIAGRAM-10

B DVD MODULE (2) CIRCUIT

: +B SIGNAL LINE : DVD(VIDEO) SIGNAL LINE



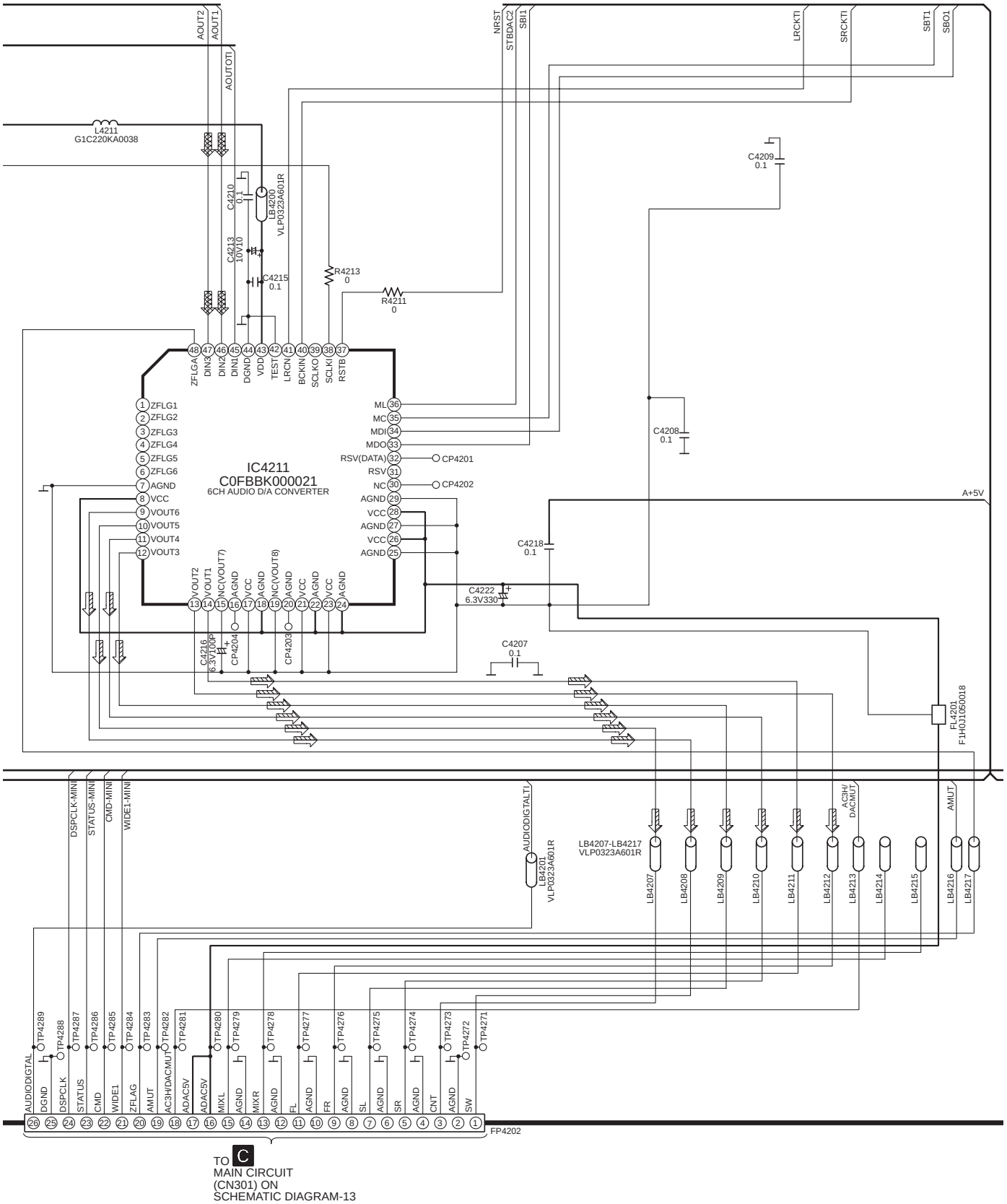
SCHEMATIC DIAGRAM-11

B DVD MODULE (2) CIRCUIT

: +B SIGNAL LINE

: DVD(AUDIO) SIGNAL LINE

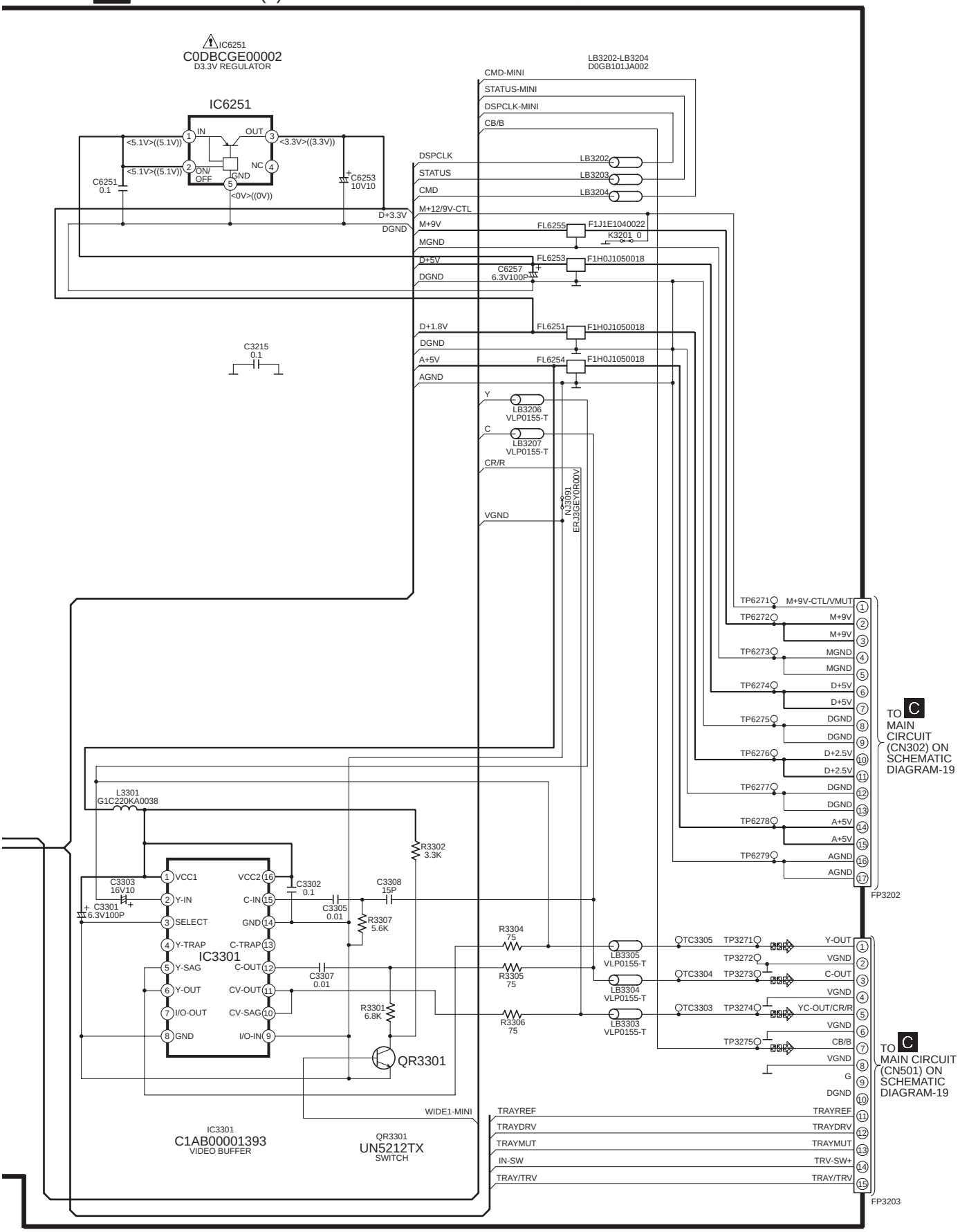
: MAIN SIGNAL LINE



SCHEMATIC DIAGRAM-12

B DVD MODULE (2) CIRCUIT

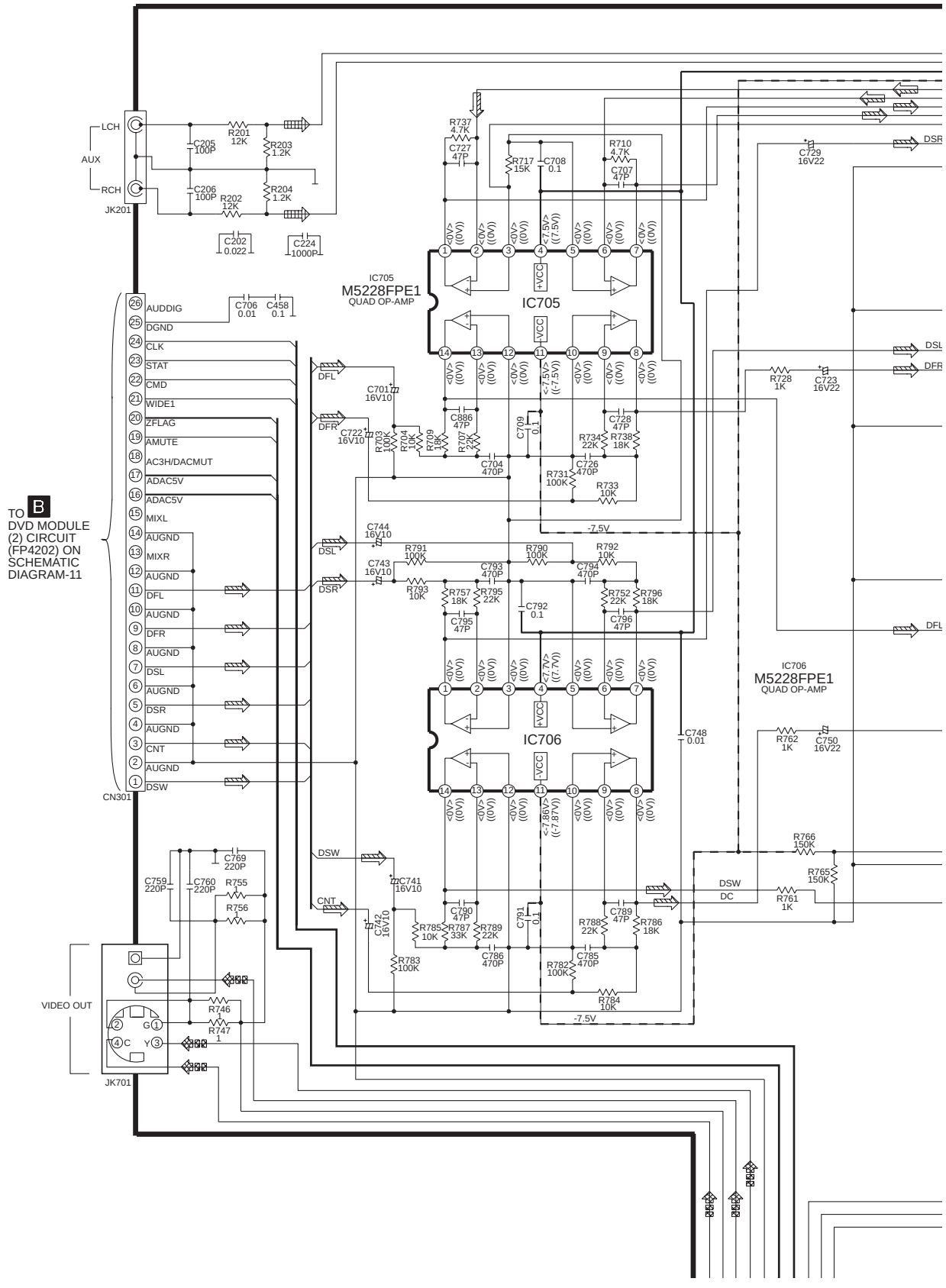
——— : +B SIGNAL LINE ⊠⊠ : DVD(VIDEO) SIGNAL LINE



SCHEMATIC DIAGRAM - 13

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE : DVD(VIDEO) SIGNAL LINE
: AUX SIGNAL LINE

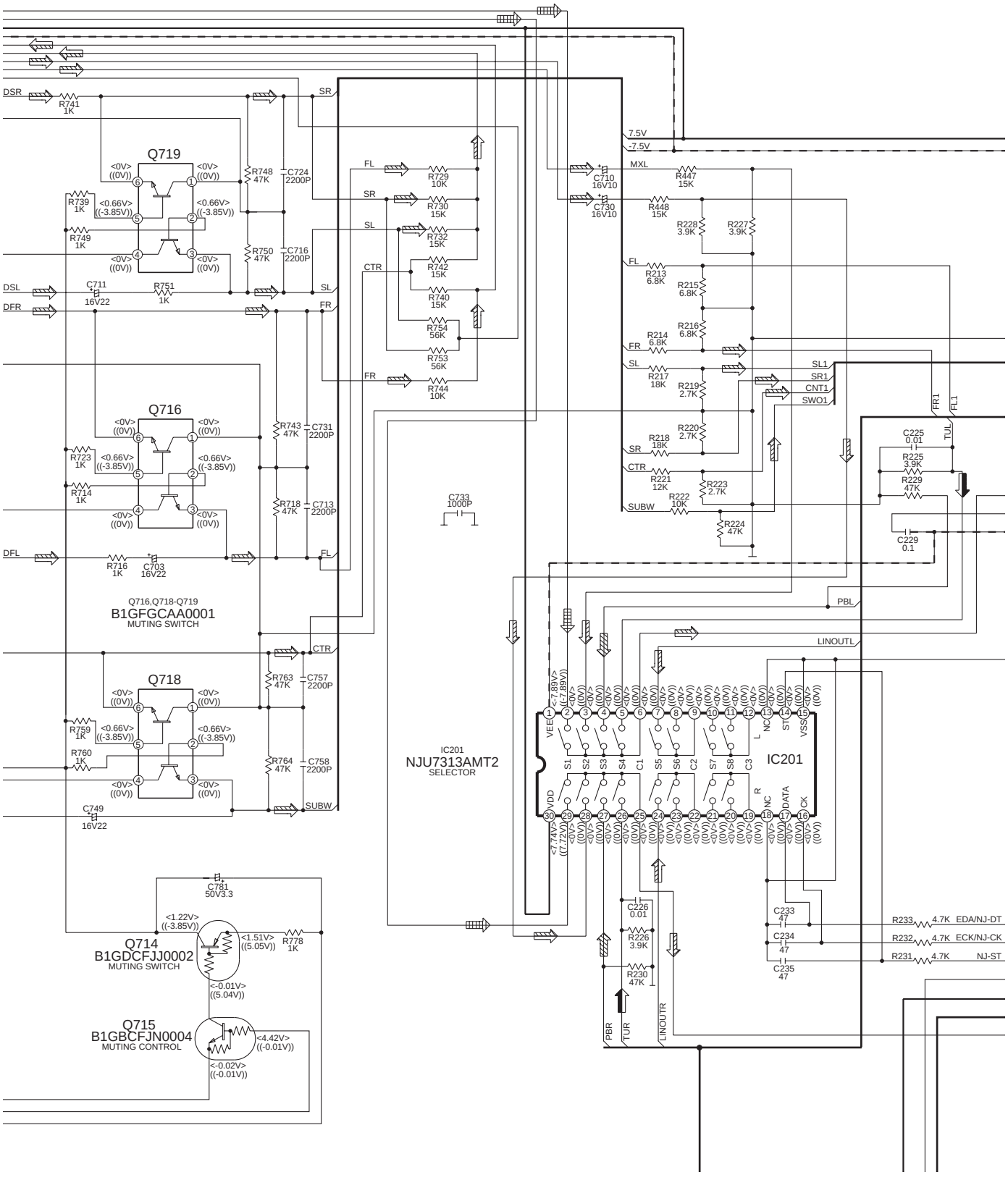
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 14

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE : FM/AM SIGNAL LINE
: AUX SIGNAL LINE : PLAYBACK SIGNAL LINE

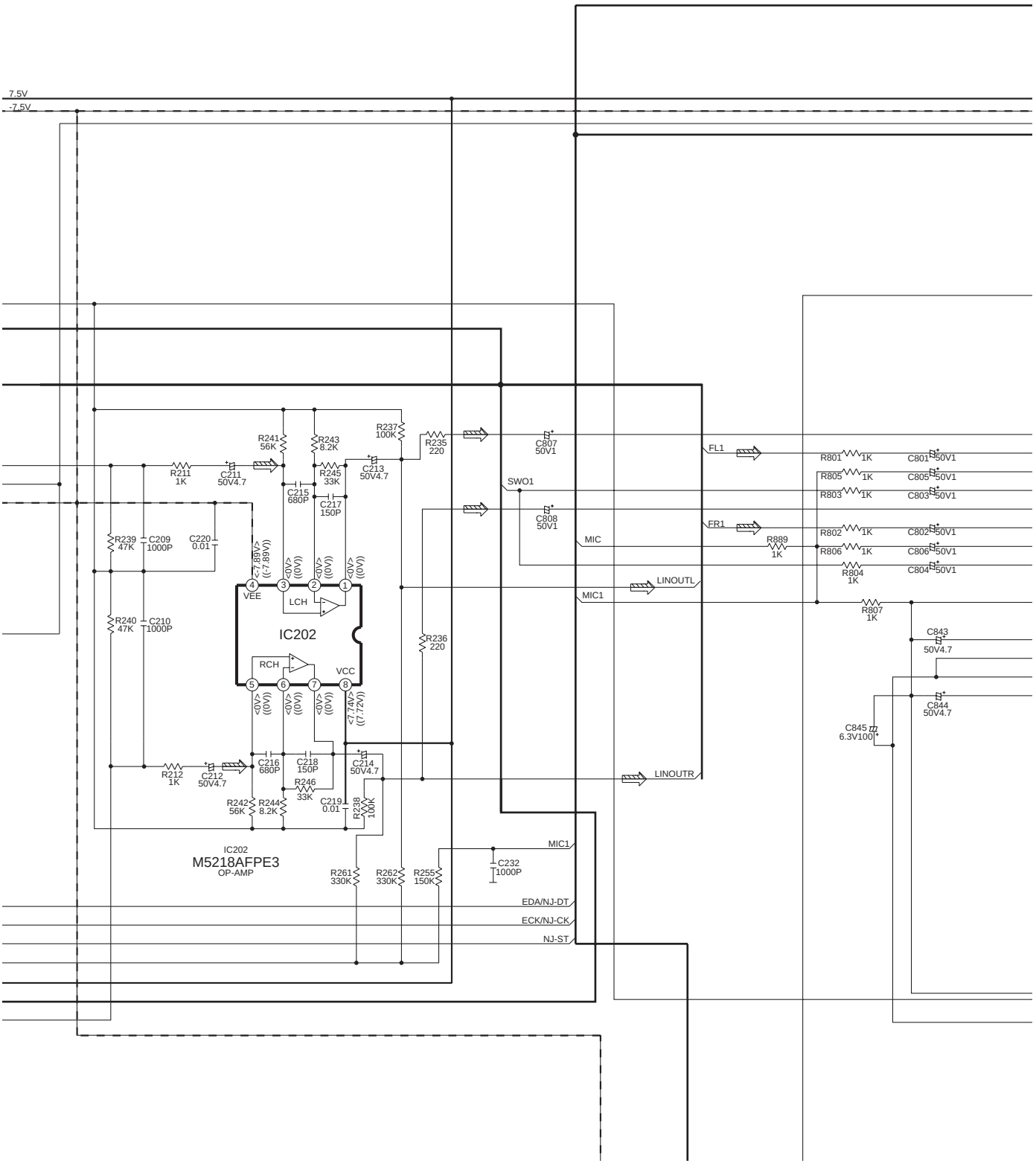
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 15

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

C MAIN CIRCUIT

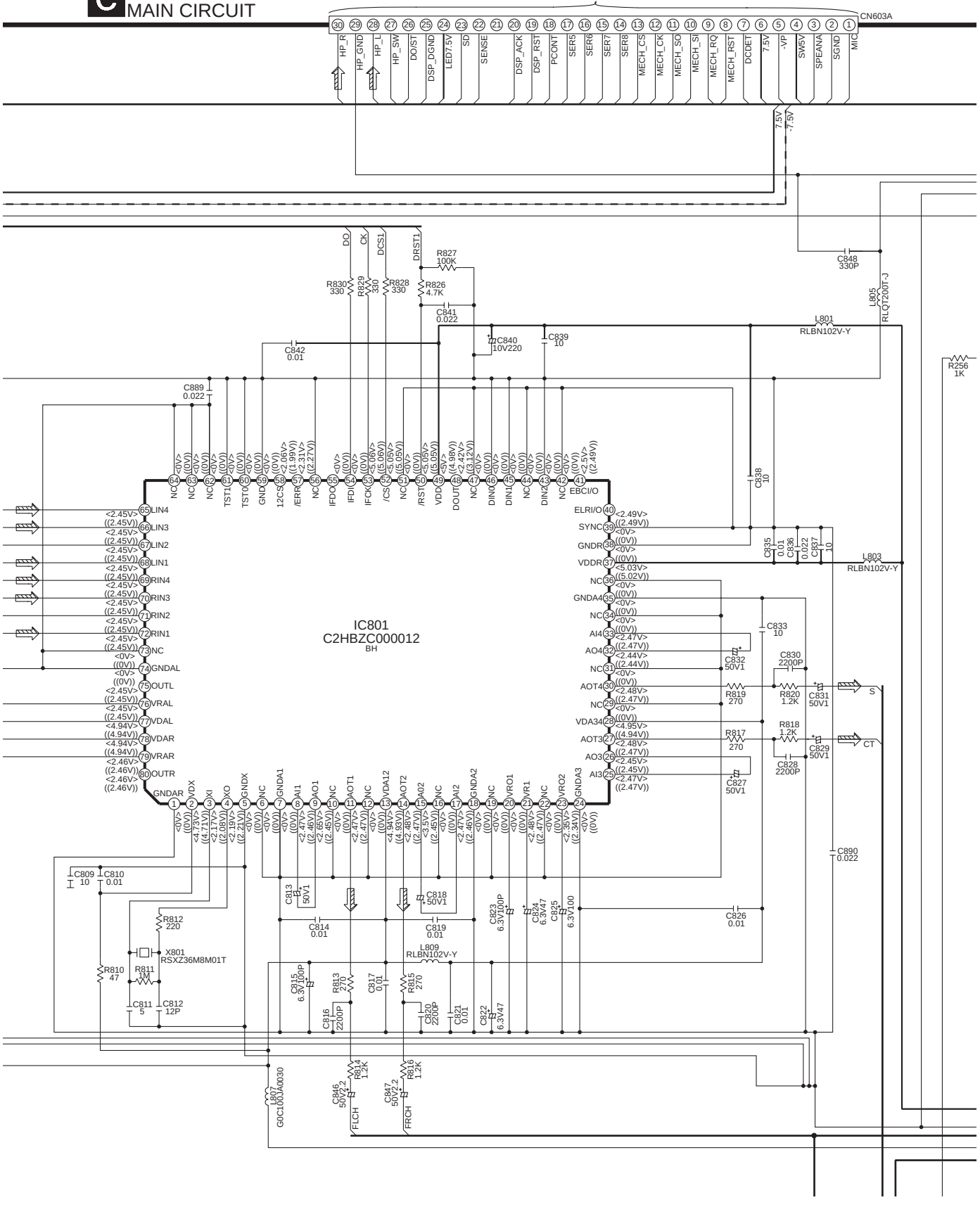


SCHEMATIC DIAGRAM - 16

: +B SIGNAL LINE : -B SIGNAL LINE

: MAIN SIGNAL LINE TO D PANEL CIRCUIT (CN601) ON SCHEMATIC DIAGRAM-25

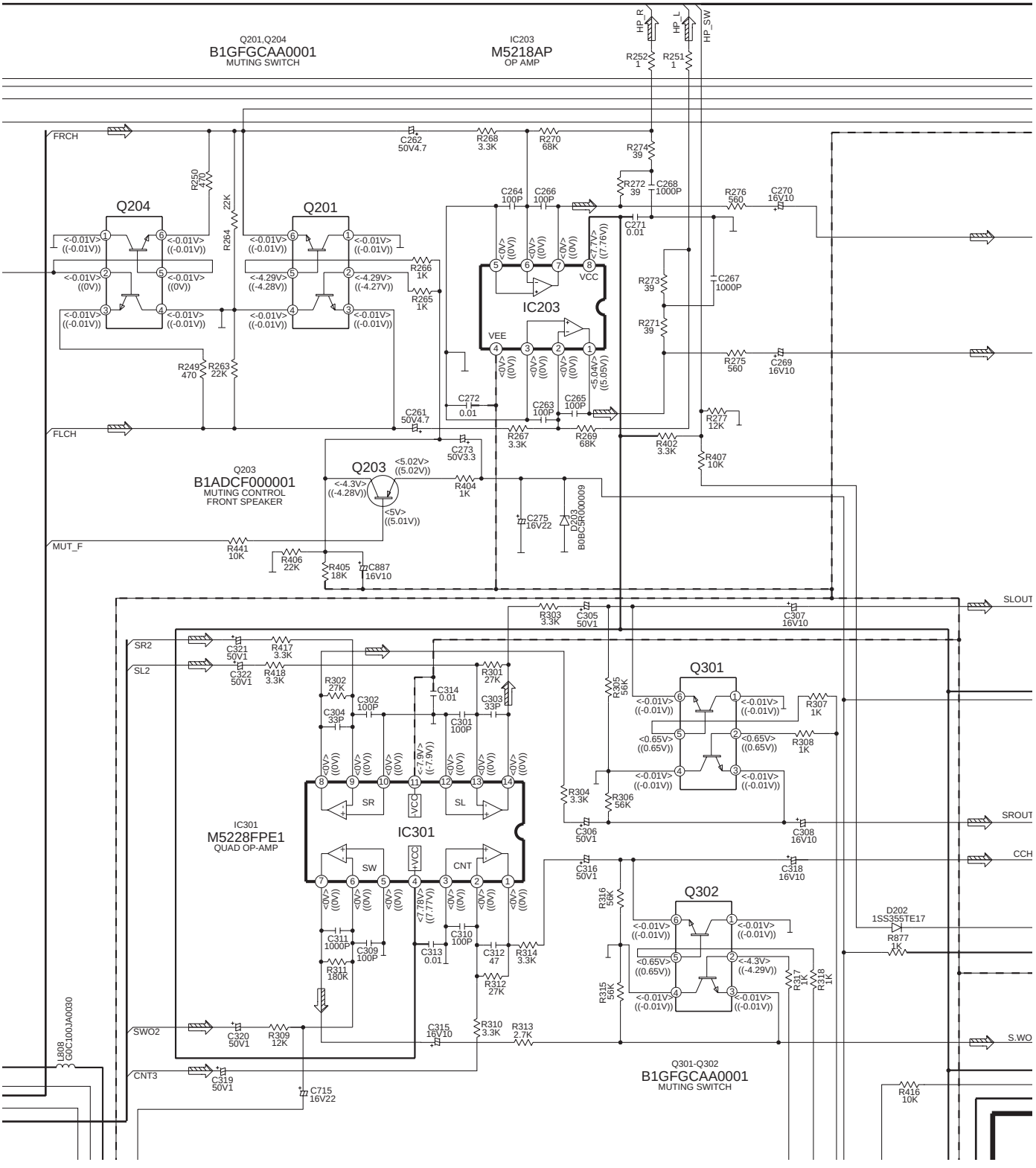
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 17

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

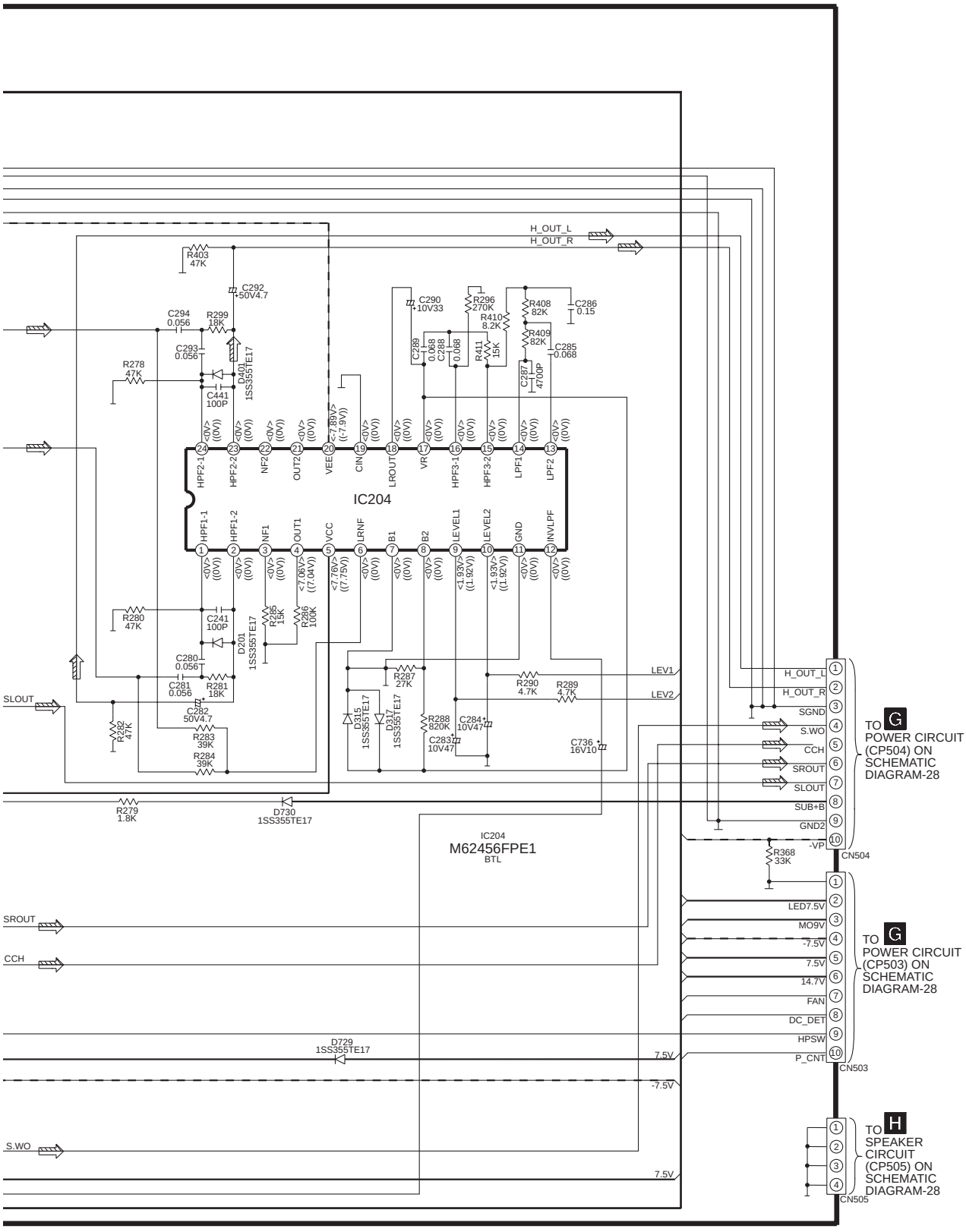
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 18

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

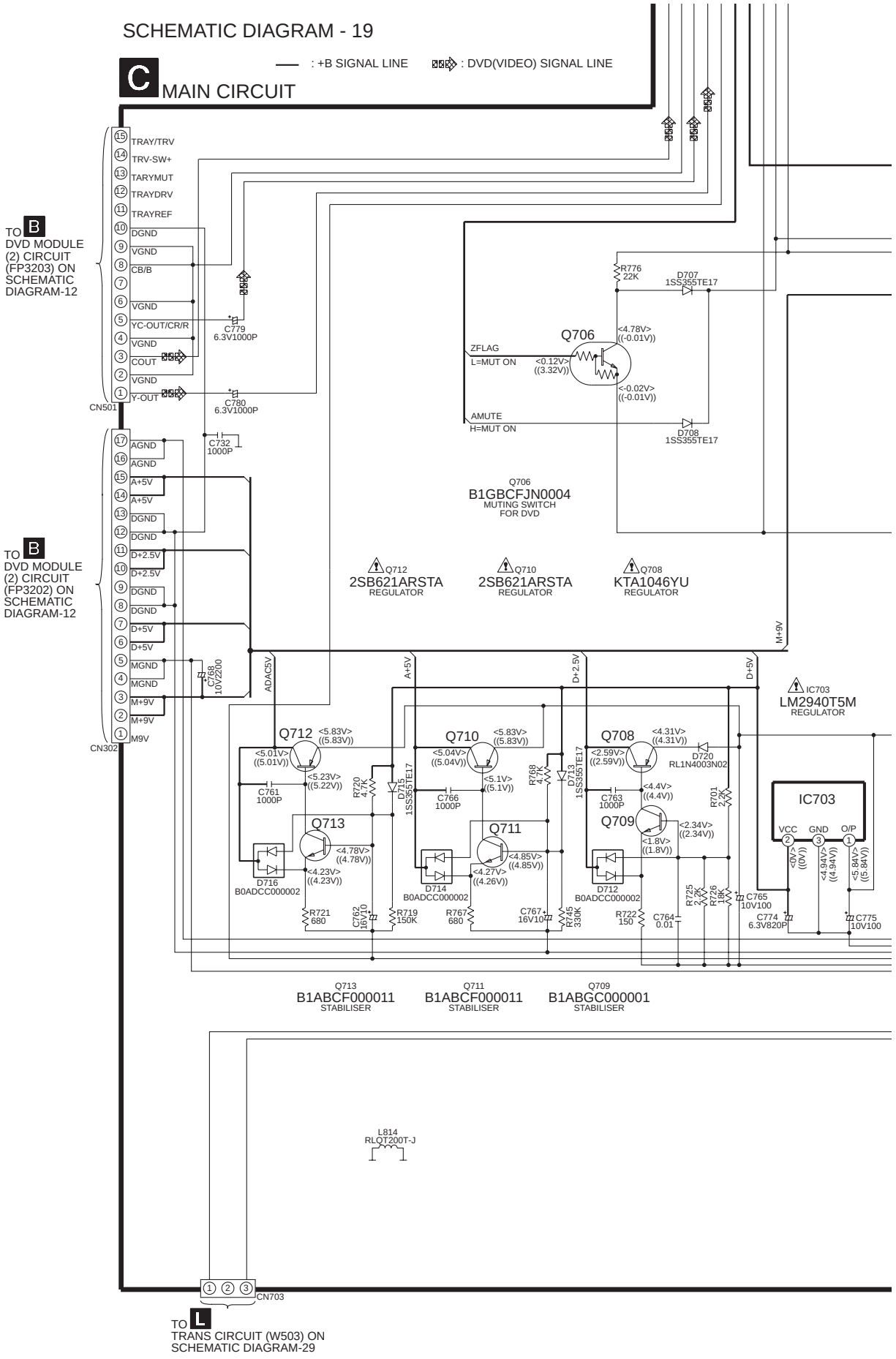
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 19

: +B SIGNAL LINE : DVD(VIDEO) SIGNAL LINE

C MAIN CIRCUIT

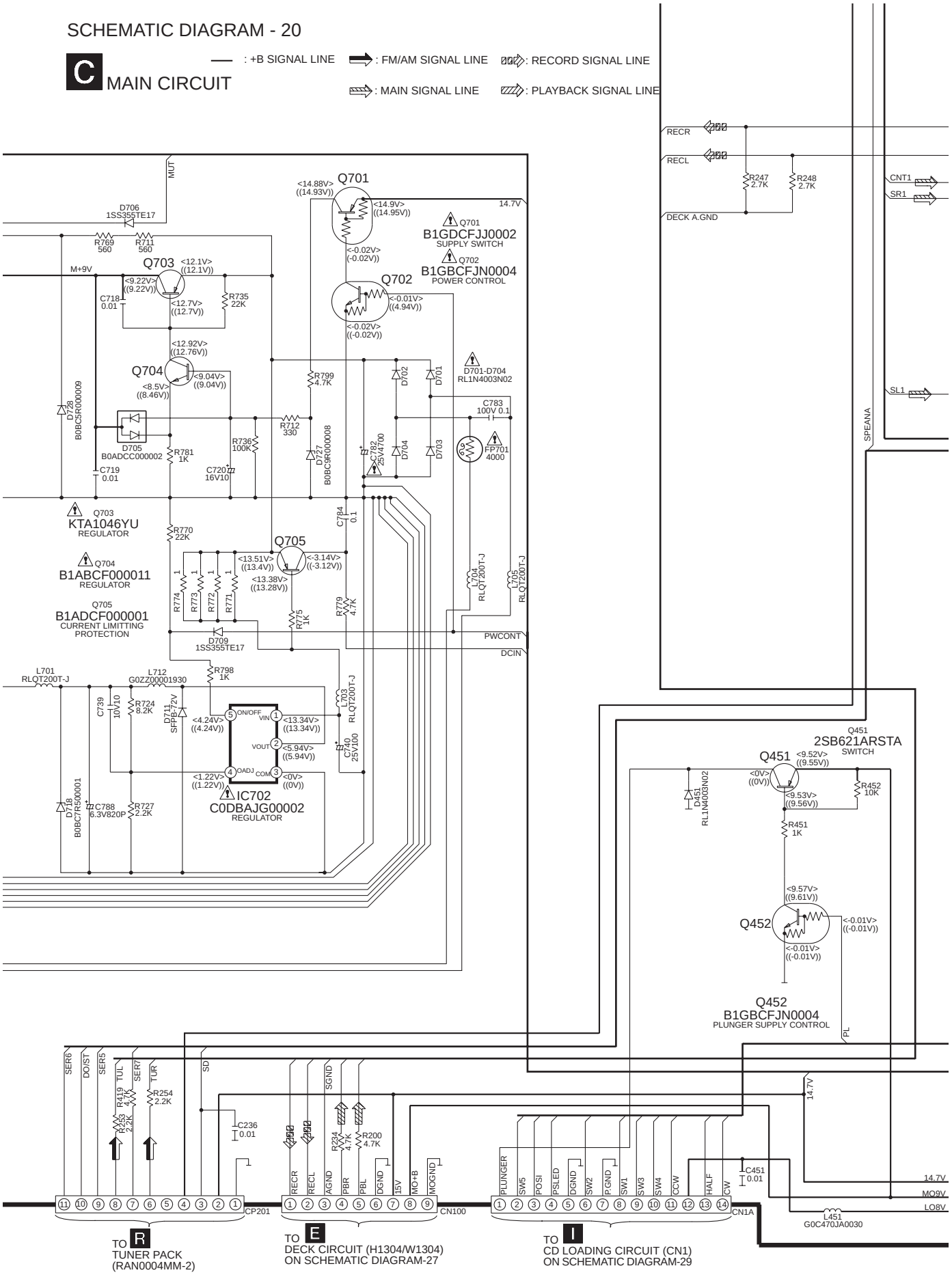


SCHEMATIC DIAGRAM - 20

C MAIN CIRCUIT

—— : +B SIGNAL LINE ⇨ : FM/AM SIGNAL LINE ⇨ : RECORD SIGNAL LINE

⇨ : MAIN SIGNAL LINE ⇨ : PLAYBACK SIGNAL LINE

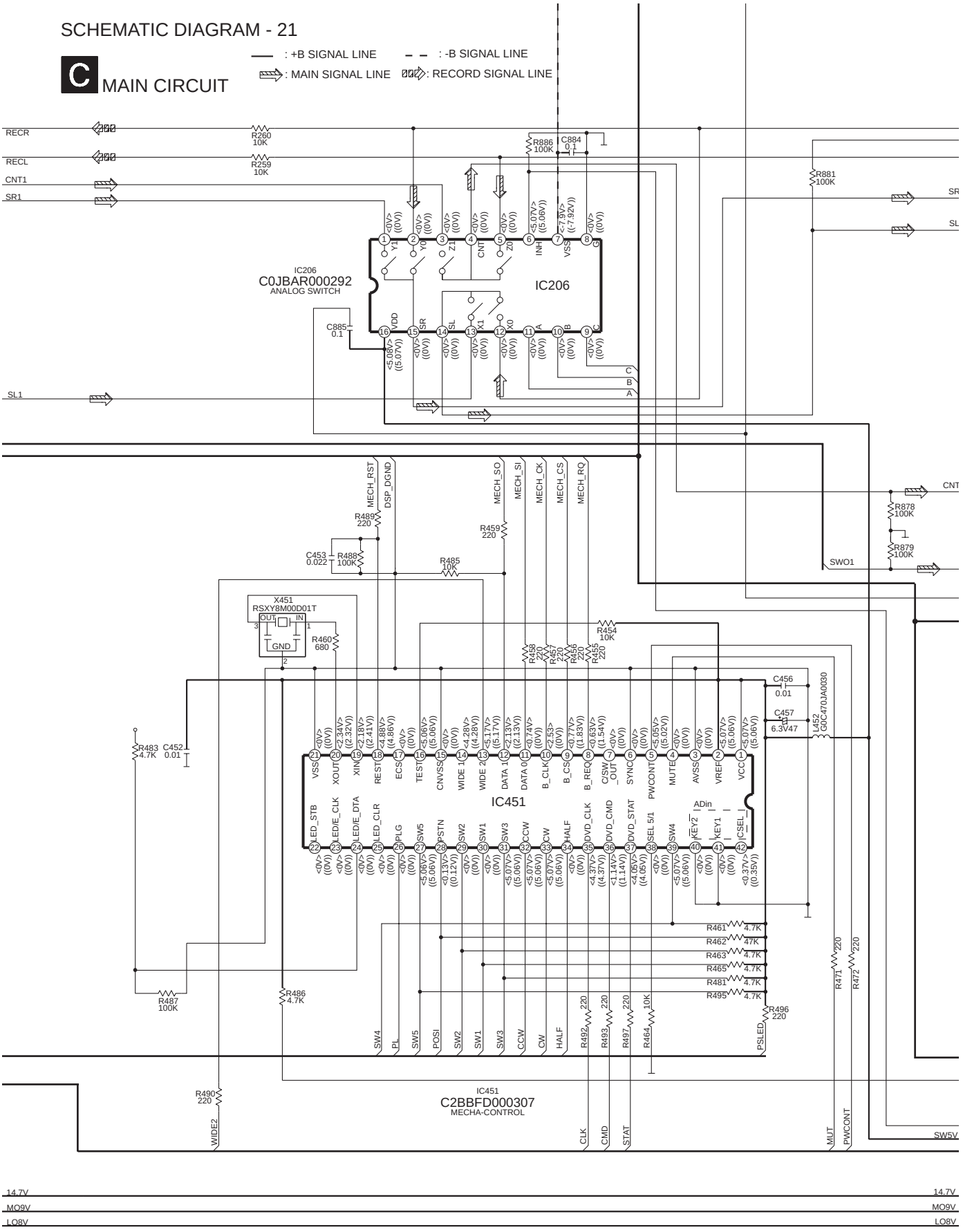


SCHEMATIC DIAGRAM - 21

C MAIN CIRCUIT

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

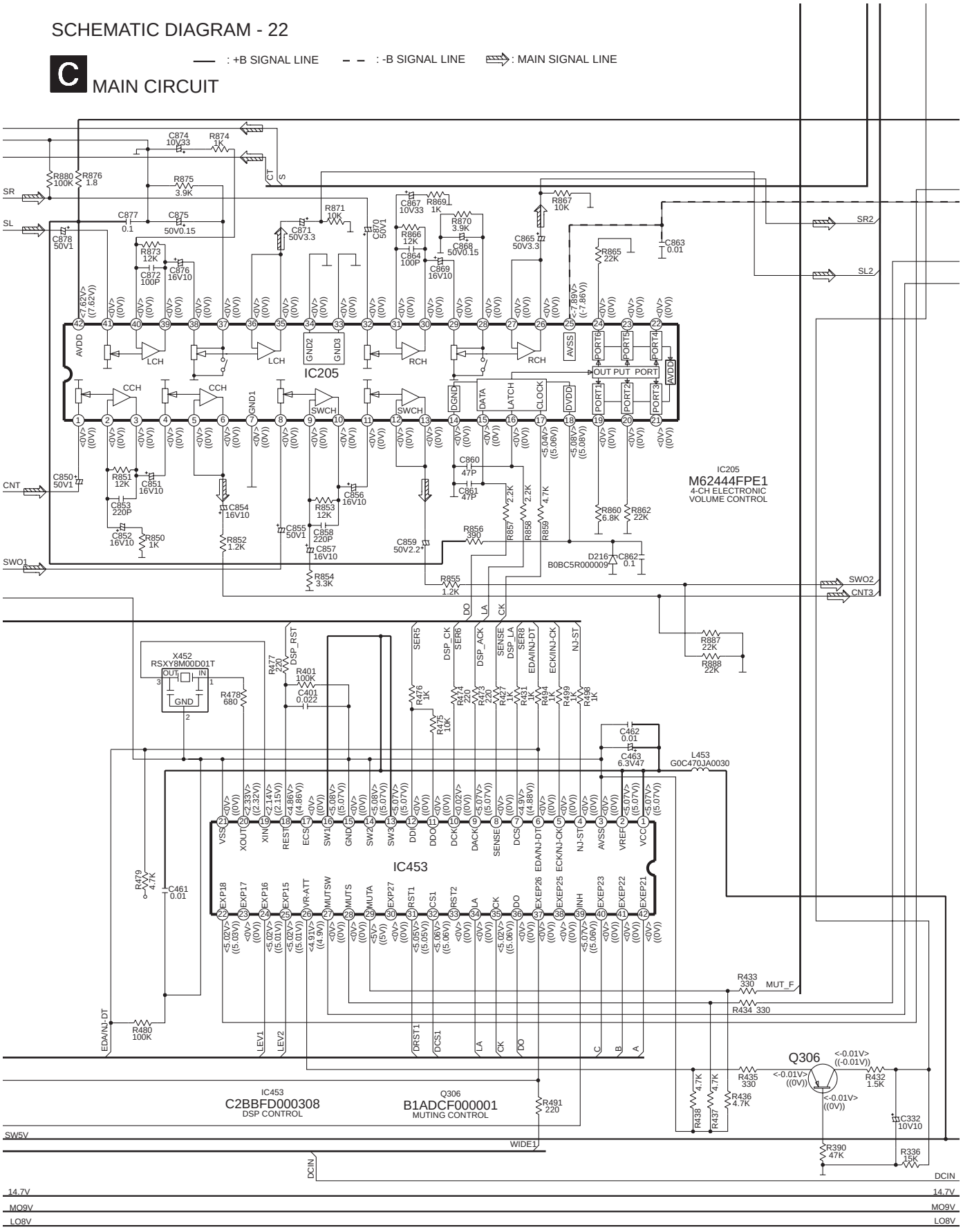
⇨ : MAIN SIGNAL LINE ⇨ : RECORD SIGNAL LINE



SCHEMATIC DIAGRAM - 22

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE

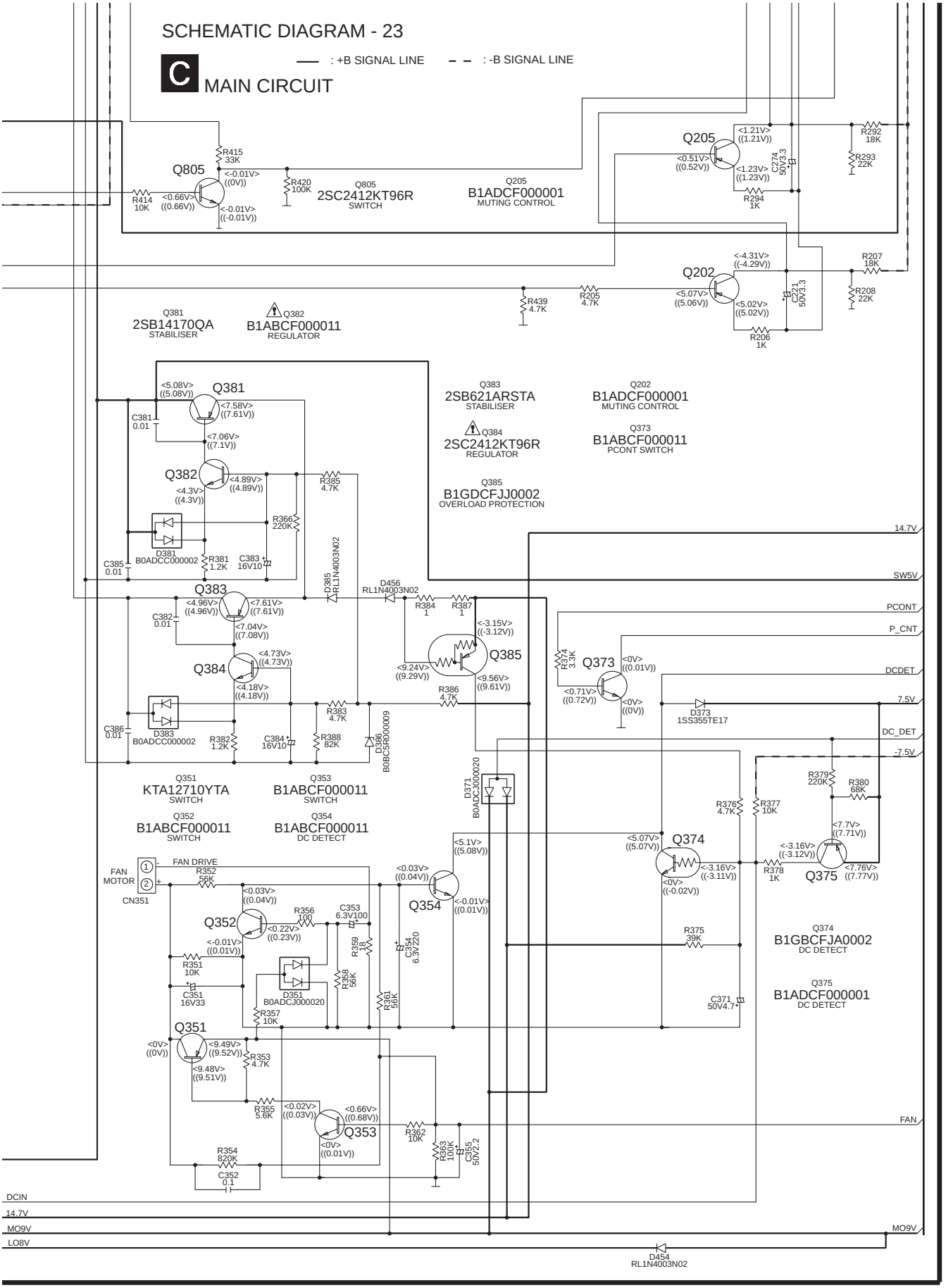
C MAIN CIRCUIT



SCHEMATIC DIAGRAM - 23

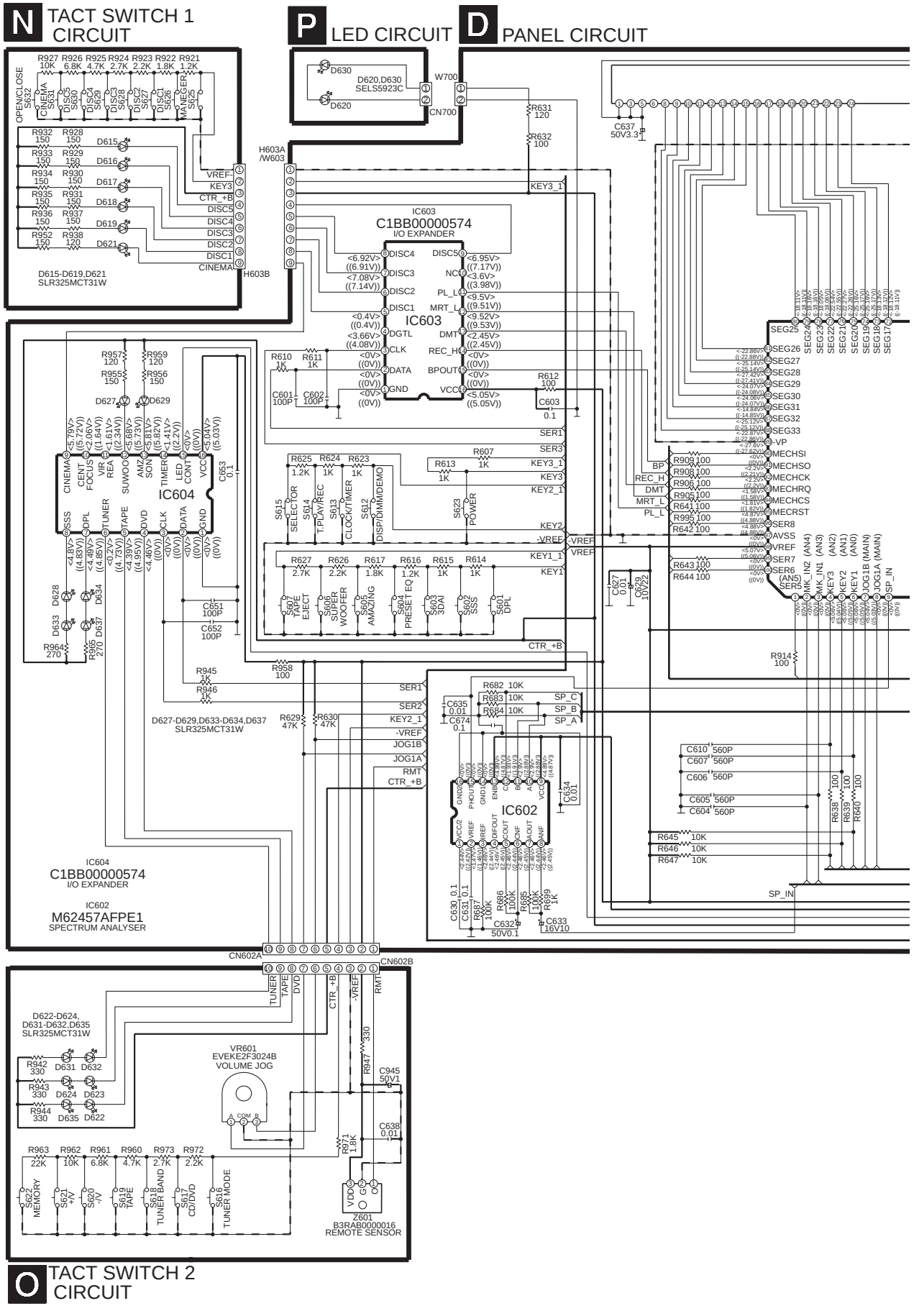
C MAIN CIRCUIT

—— : +B SIGNAL LINE – – : -B SIGNAL LINE



SCHEMATIC DIAGRAM - 24

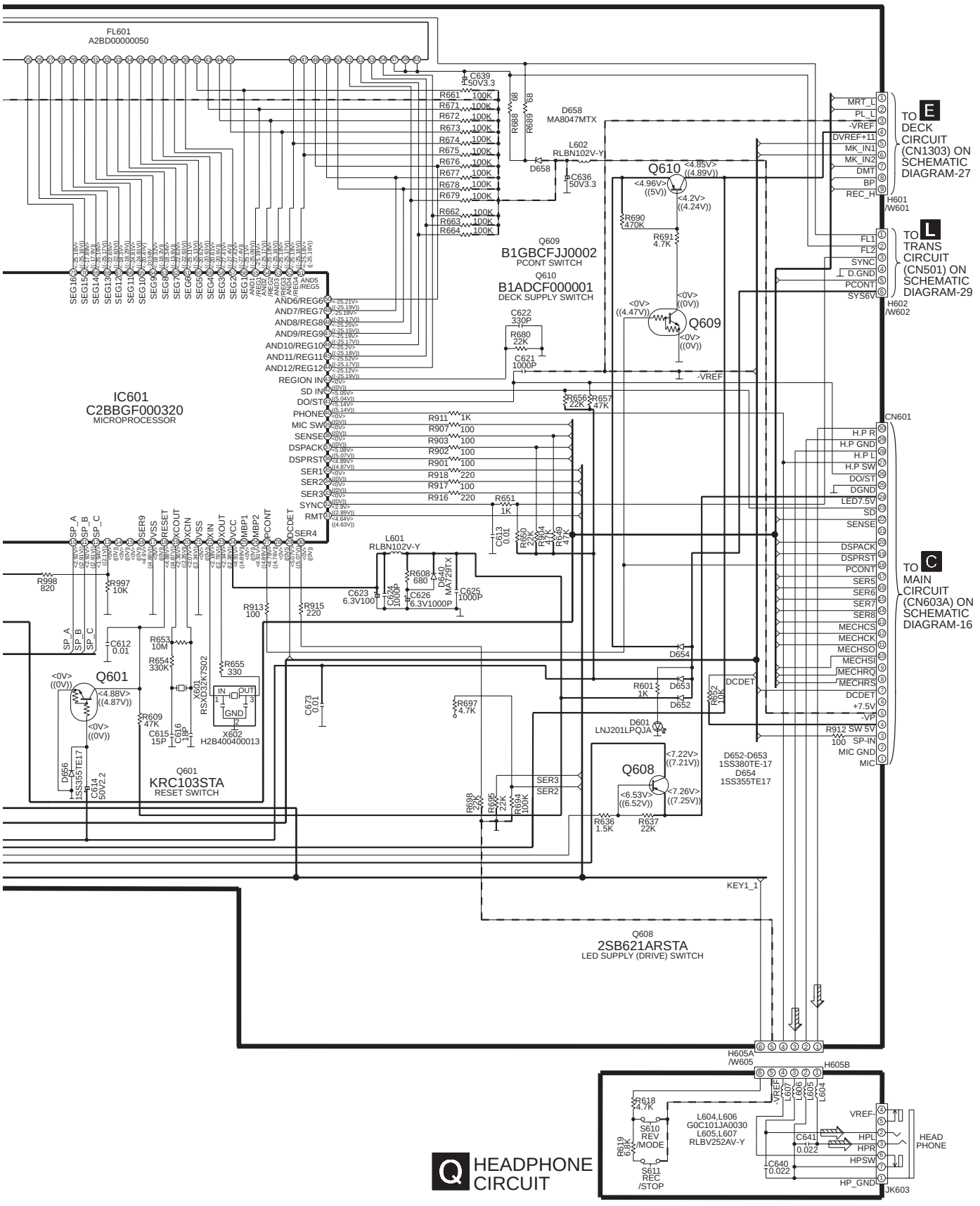
—— : +B SIGNAL LINE – – : -B SIGNAL LINE



SCHEMATIC DIAGRAM - 25

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ⇨ : MAIN SIGNAL LINE

D PANEL CIRCUIT

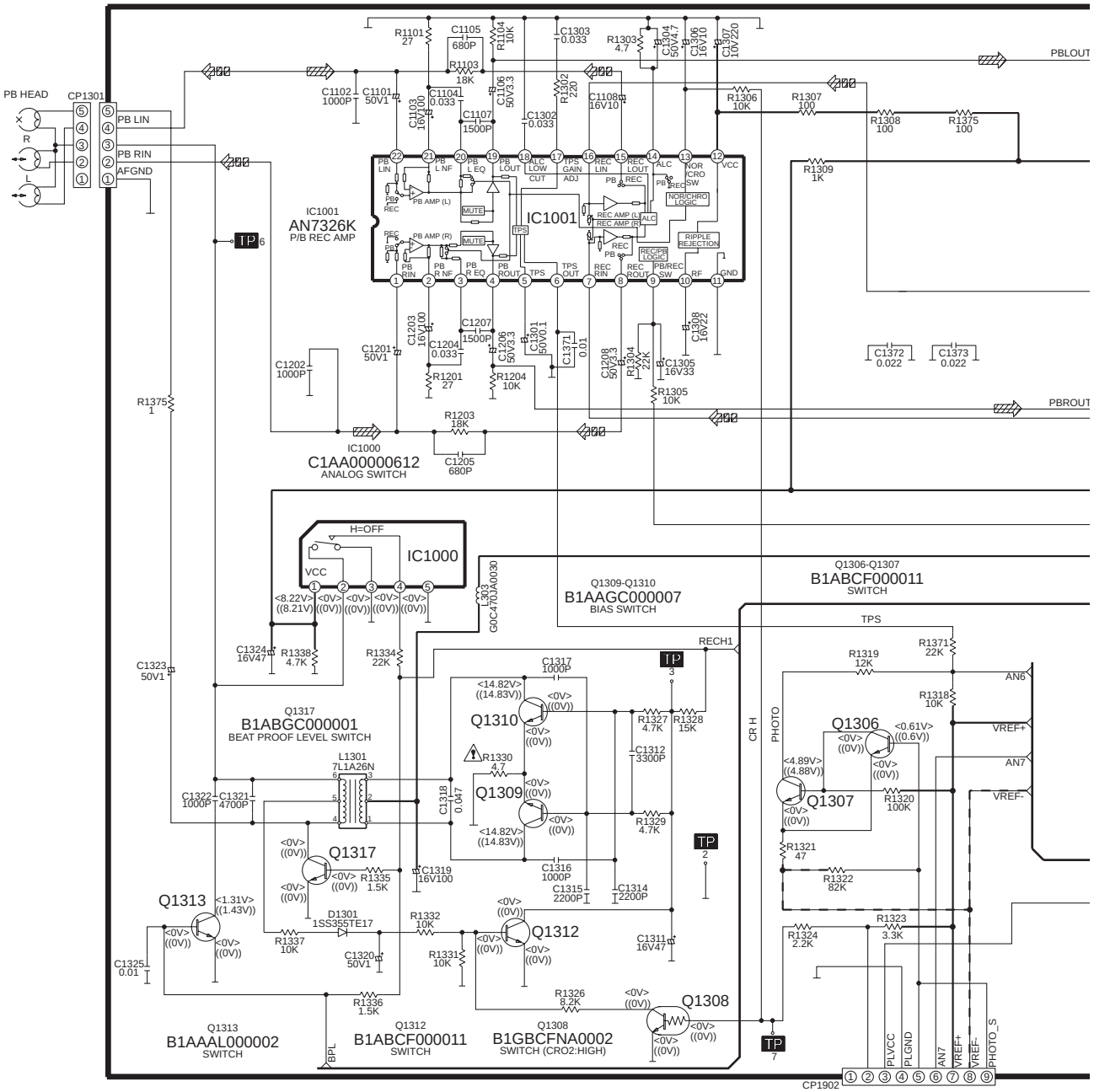


Q HEADPHONE CIRCUIT

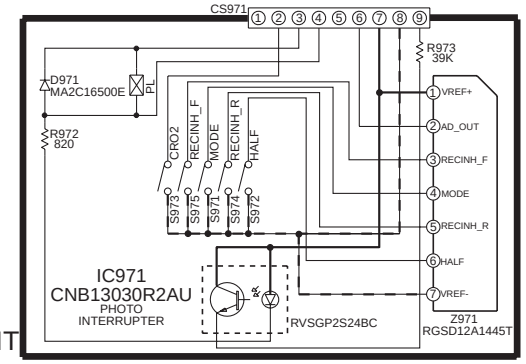
SCHEMATIC DIAGRAM - 26

—— : +B SIGNAL LINE – – : -B SIGNAL LINE : RECORD SIGNAL LINE : PLAYBACK SIGNAL LINE

E DECK CIRCUIT



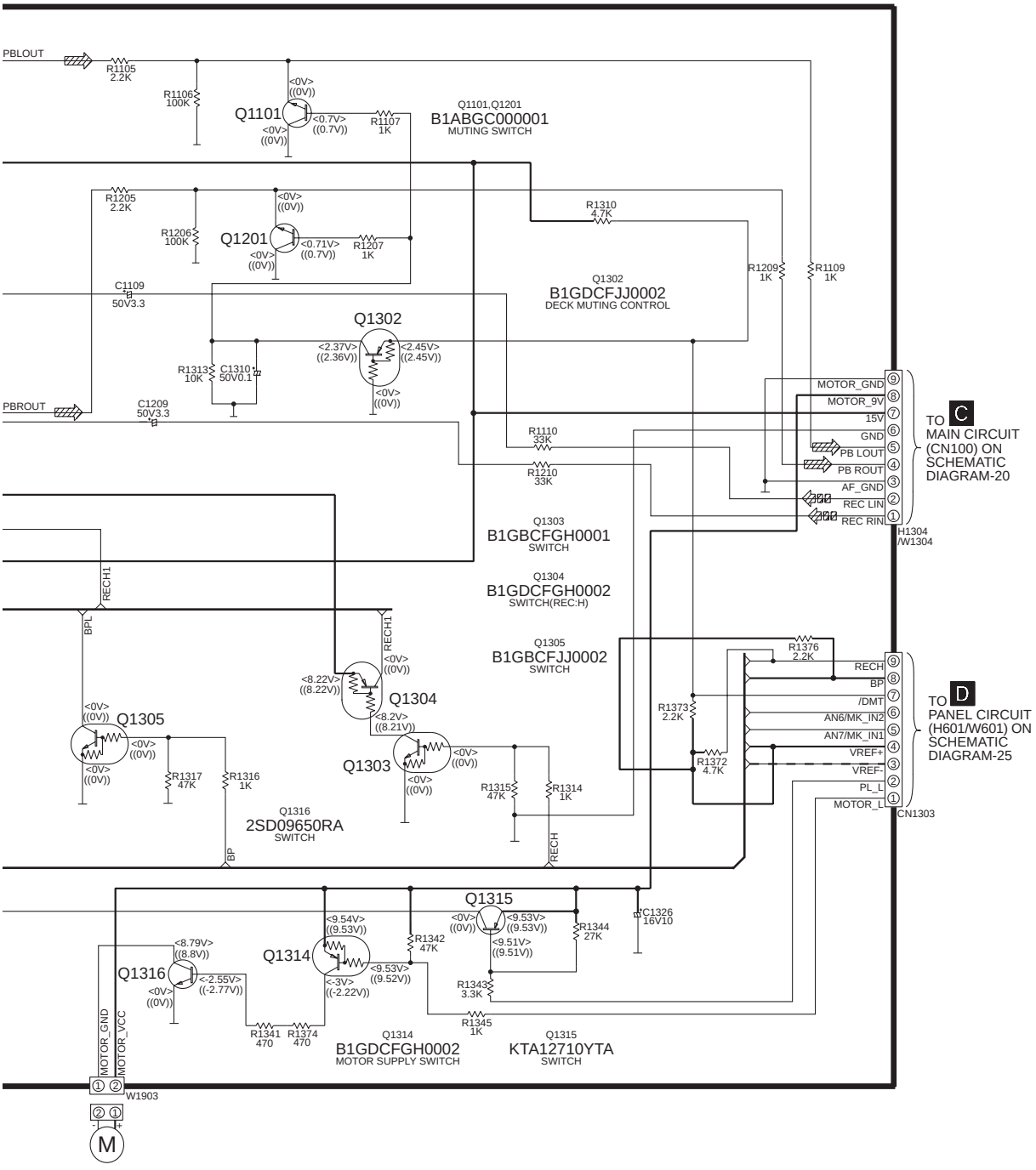
F MECHANISM DECK CIRCUIT



SCHEMATIC DIAGRAM - 27

—— : +B SIGNAL LINE – – : -B SIGNAL LINE ▨▨▨ : RECORD SIGNAL LINE ▨▨▨ : PLAYBACK SIGNAL LINE

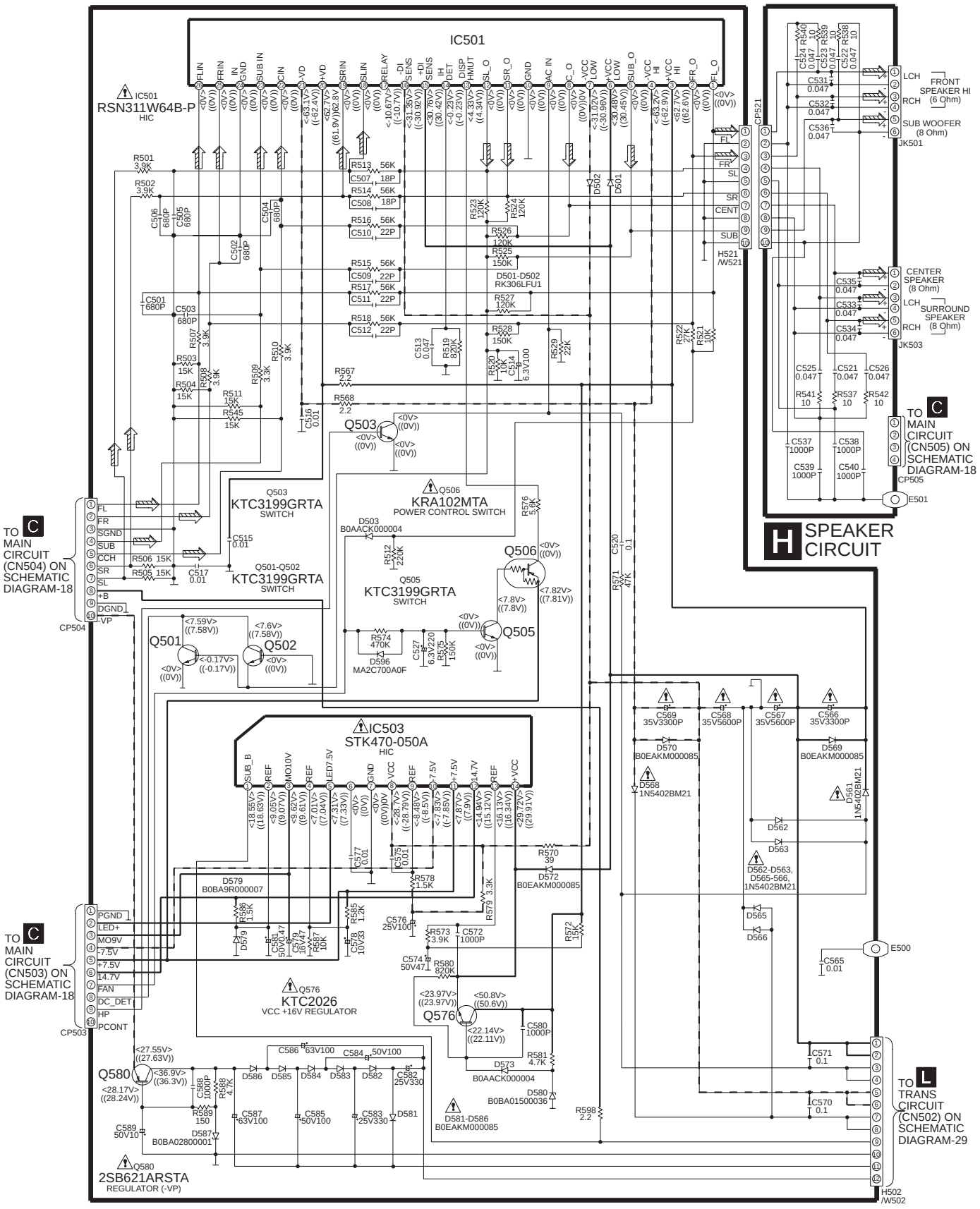
E DECK CIRCUIT



SCHEMATIC DIAGRAM - 28

: +B SIGNAL LINE : -B SIGNAL LINE : MAIN SIGNAL LINE

G POWER CIRCUIT

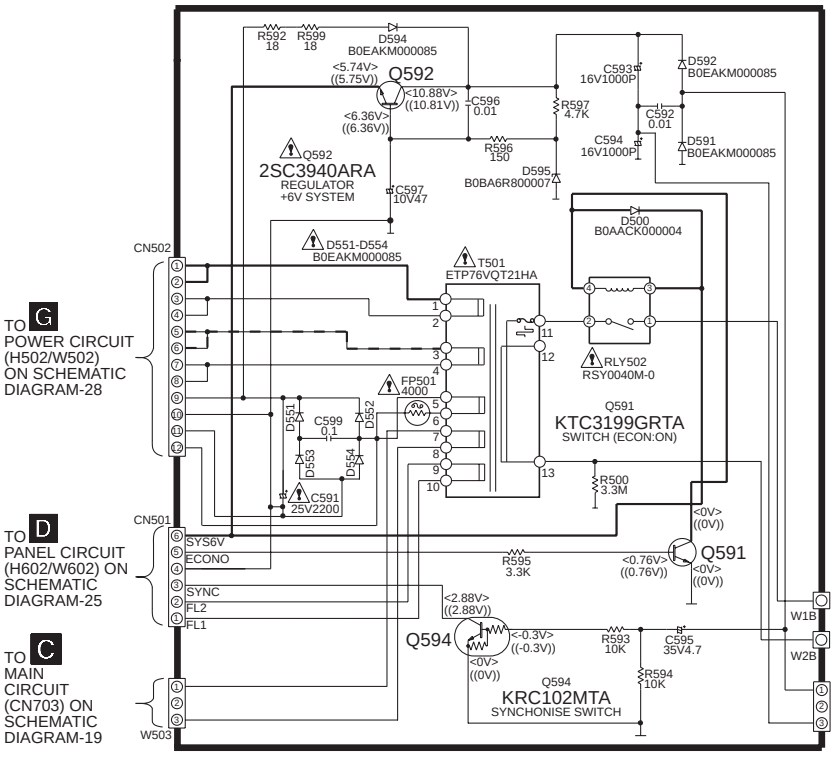


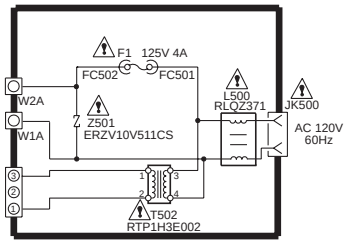
H SPEAKER CIRCUIT

SCHEMATIC DIAGRAM - 29

—— : +B SIGNAL LINE – – : -B SIGNAL LINE

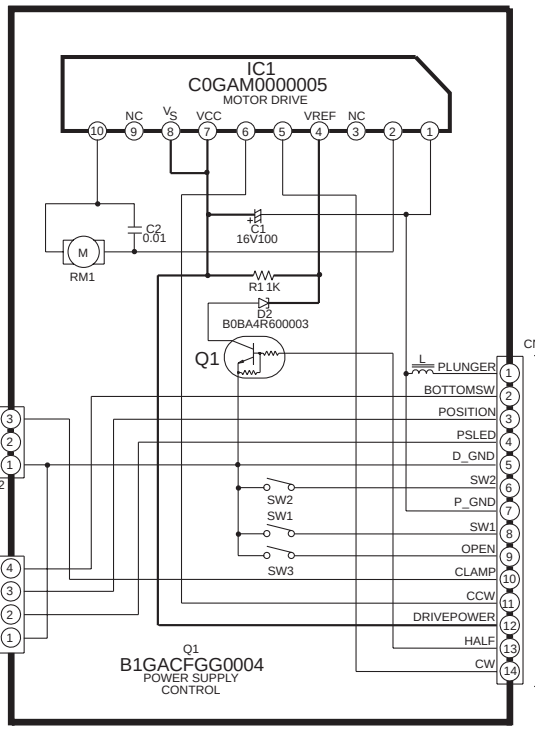
L TRANSFORMER CIRCUIT



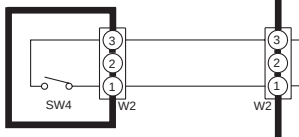


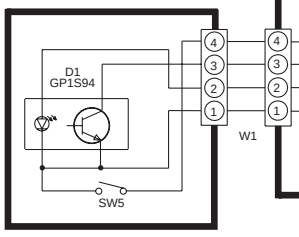
M SUB-TRANSFORMER CIRCUIT

I CD LOADING CIRCUIT



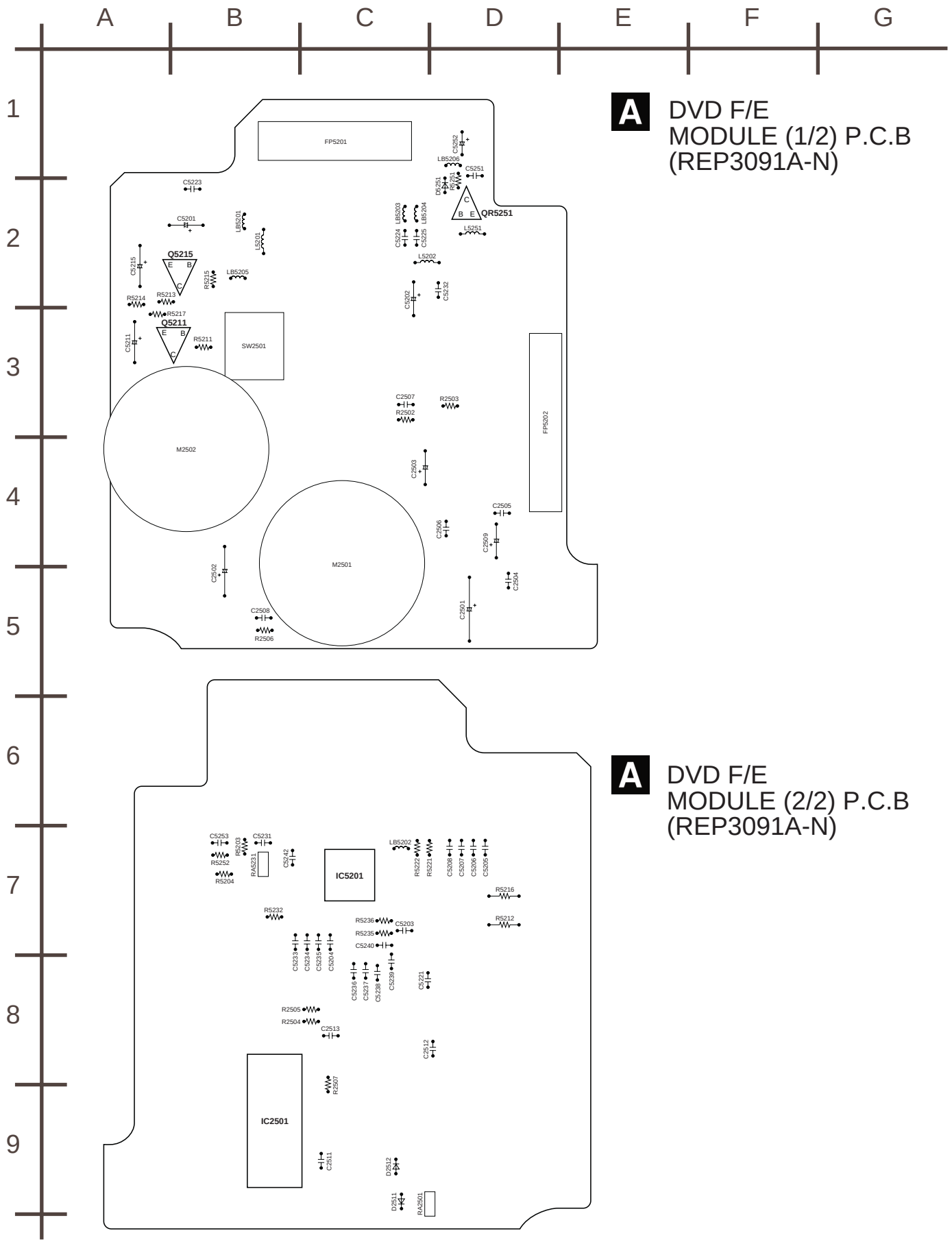
J CD DETECT CIRCUIT





K SPINDLE POSITION CIRCUIT

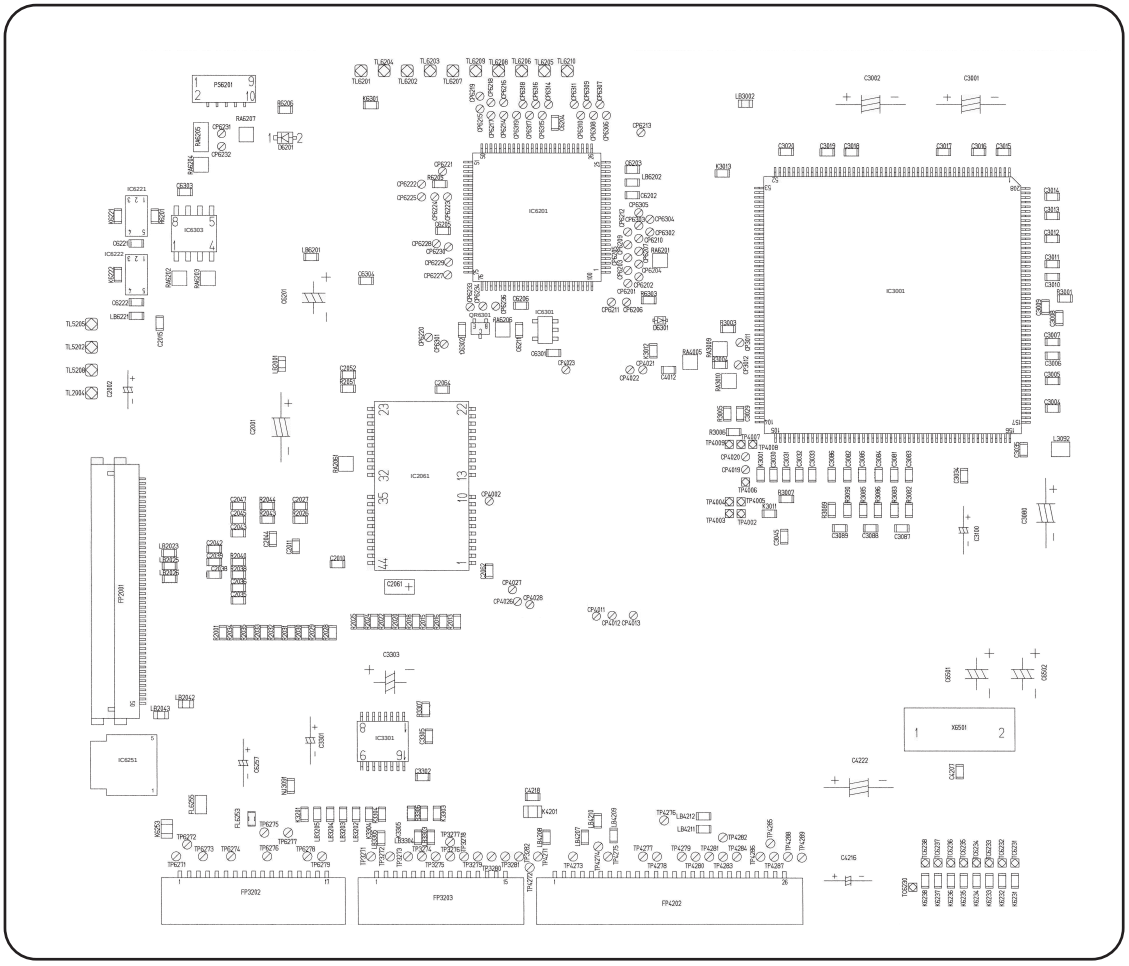
15 Printed Circuit Board



A B C D E F G

1 2 3 4 5 6 7 8 9

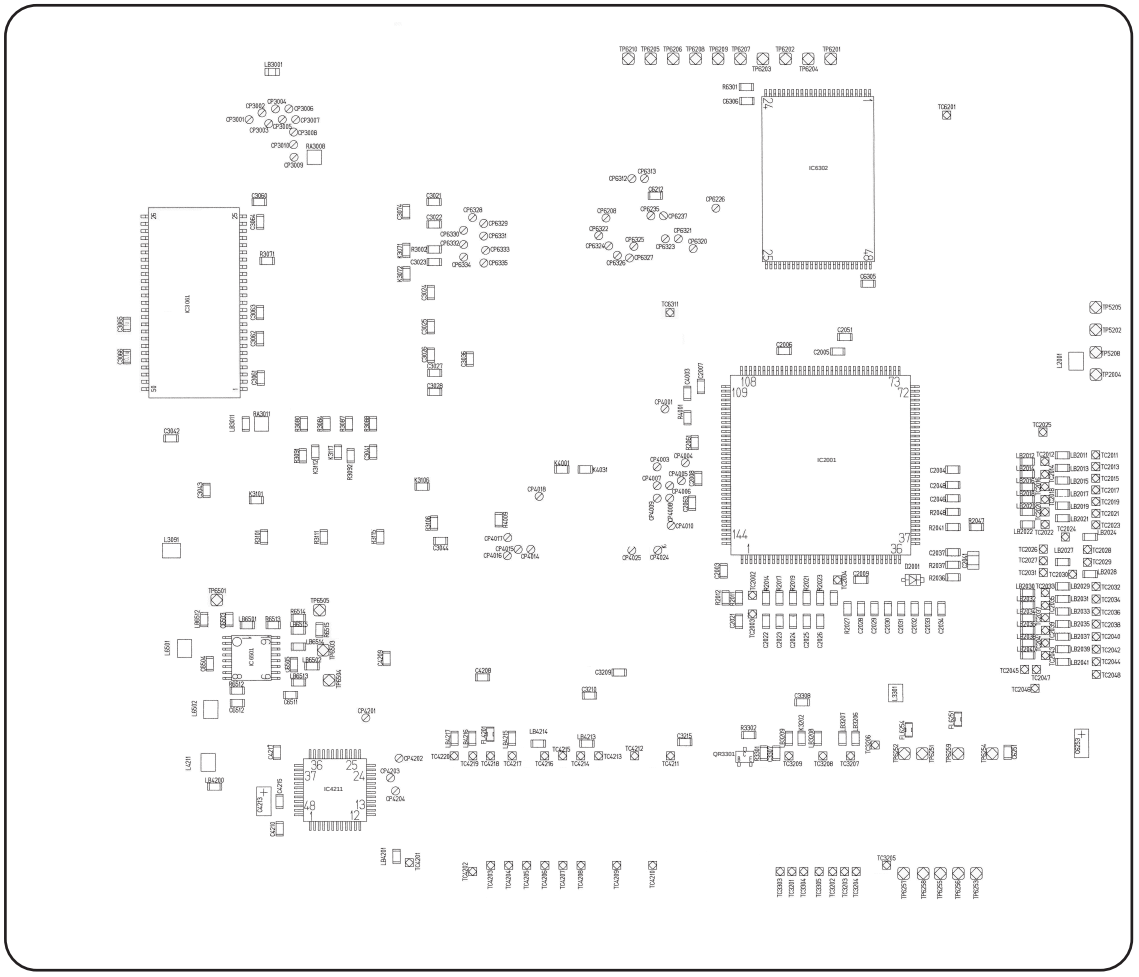
B DVD B/E MODULE (1/2) P.C.B. (REP3303L)



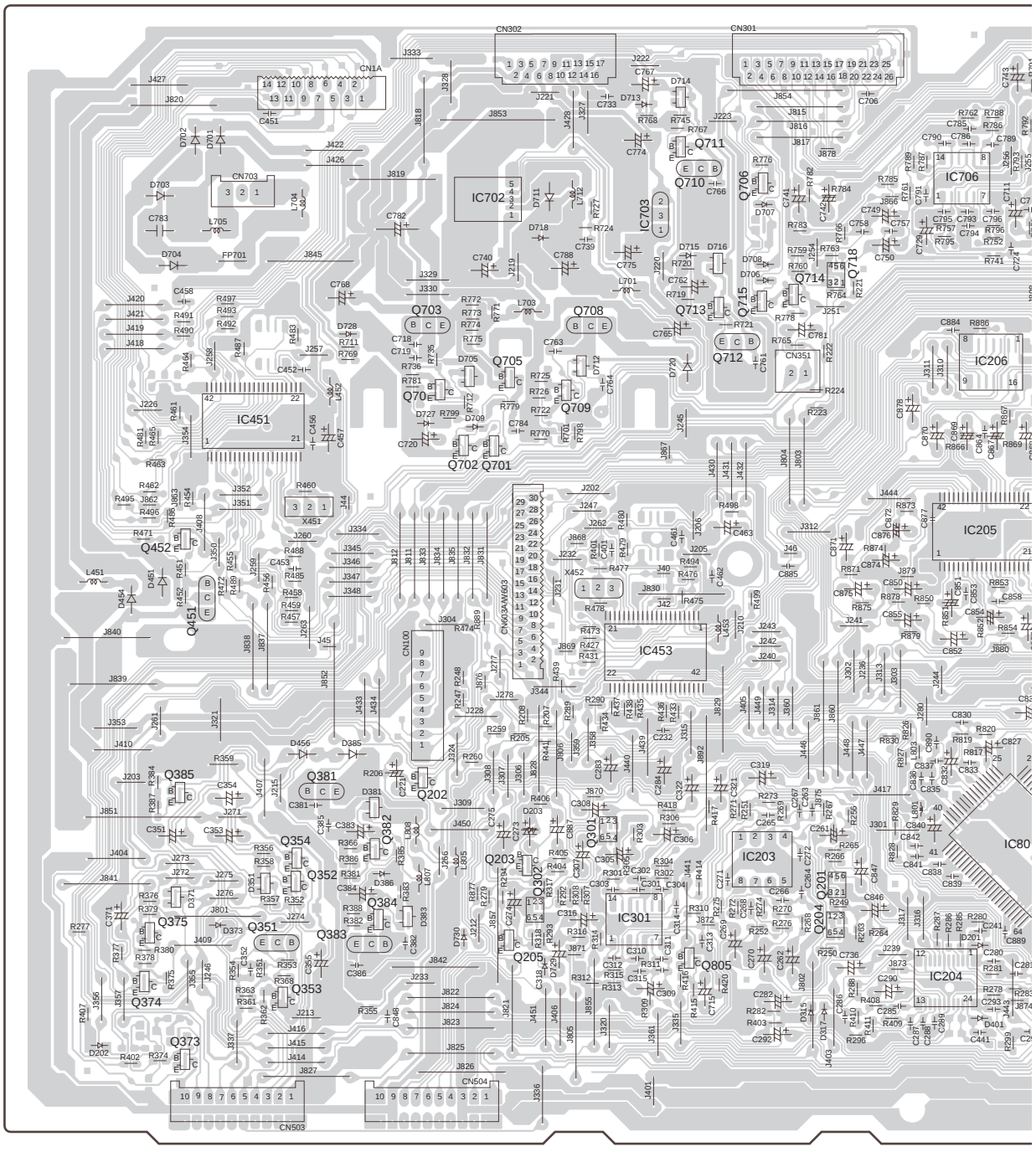
A B C D E F G

1 2 3 4 5 6 7 8 9

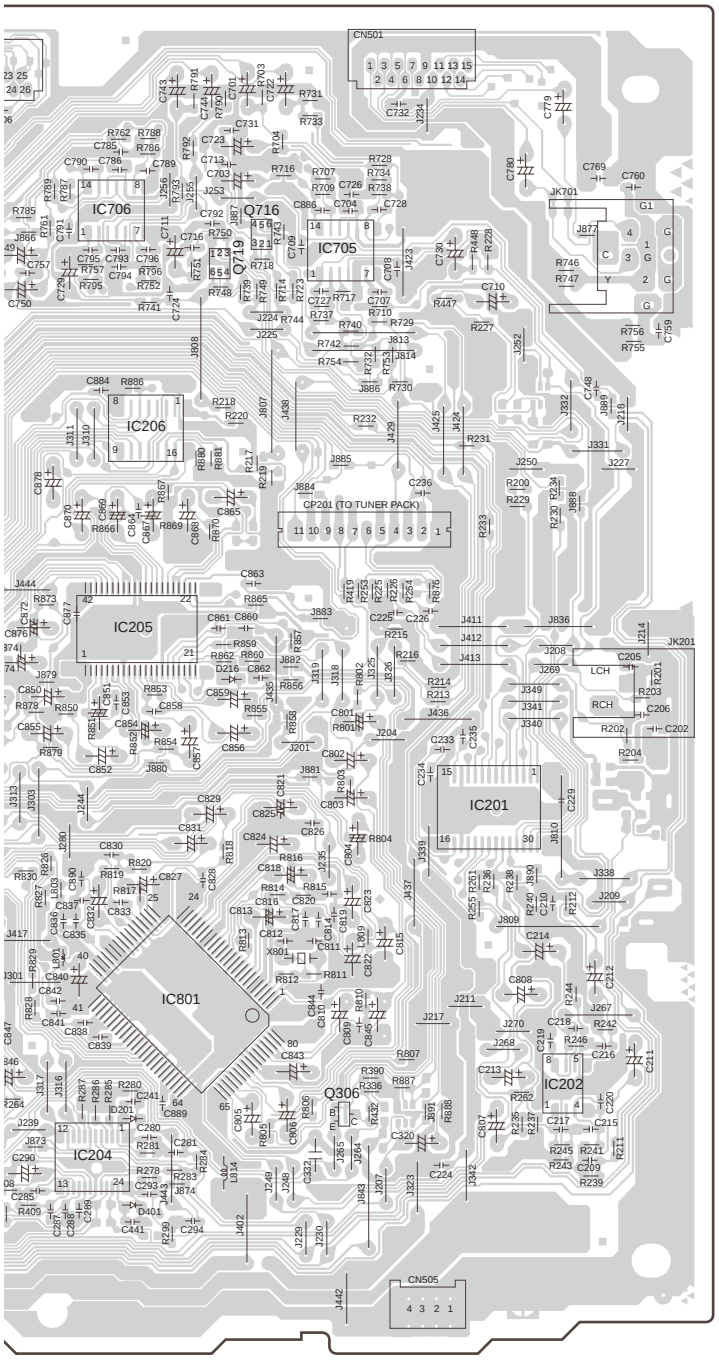
B DVD B/E MODULE (2/2) P.C.B. (REP3303L)



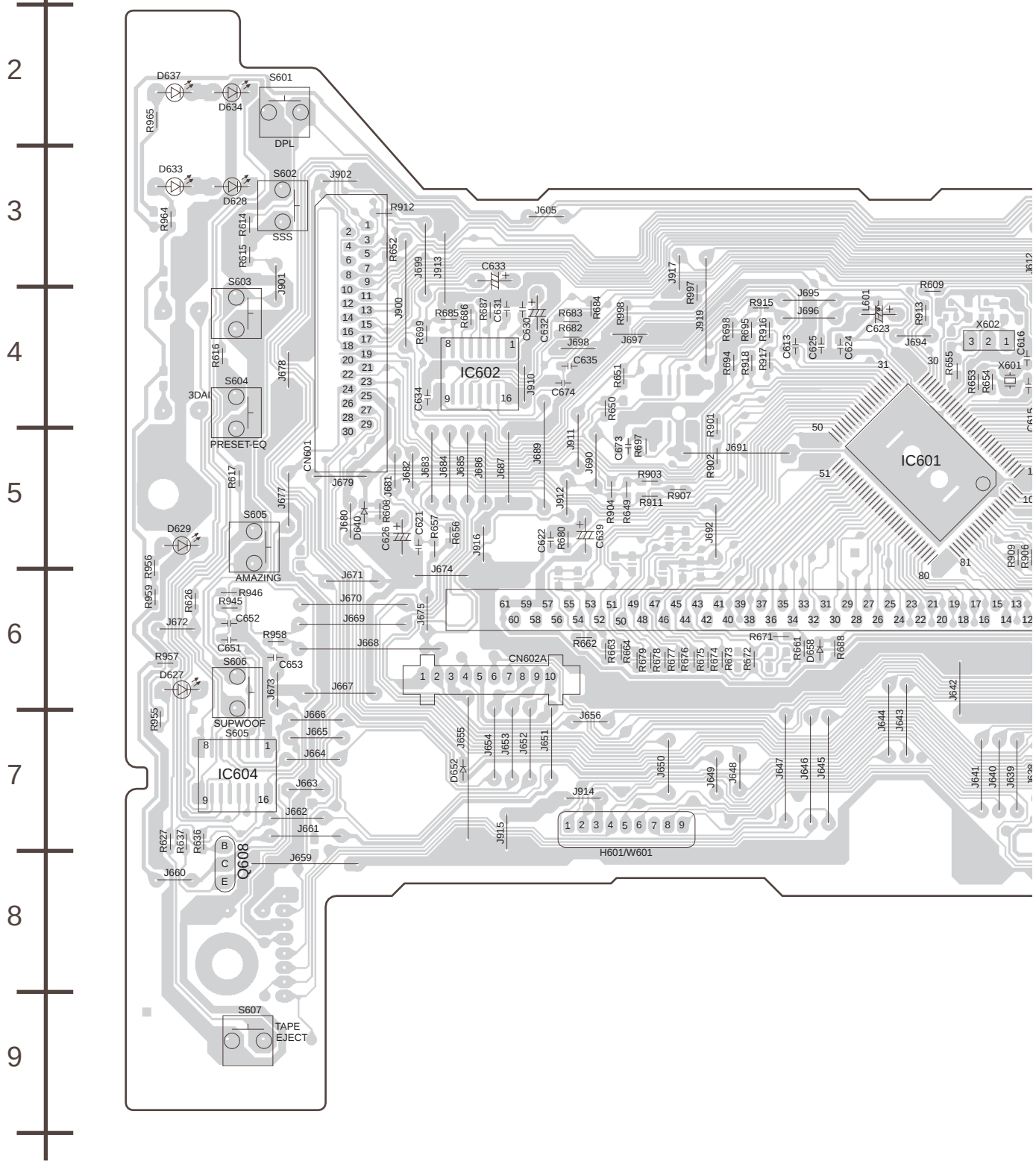
C MAIN / TUNER P.C.B. (REPX0315A)



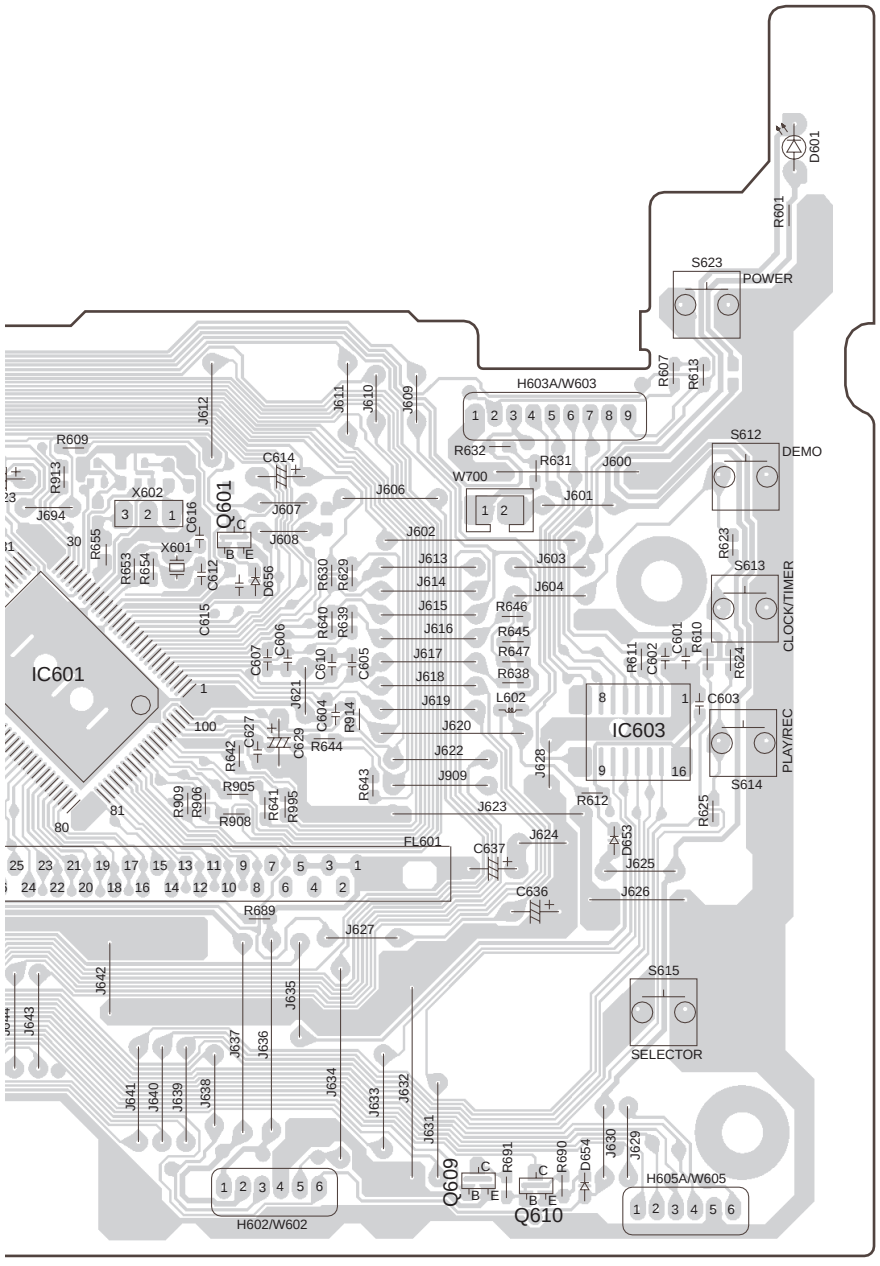
G H I J K L M


CN501
IC706
IC705
IC206
IC205
IC801
IC201
IC204
IC202
Q716
Q719
Q306
GP201 (TO TUNER PACK)
CN505
VIDEO OUT
S-VIDEO OUT
AUX

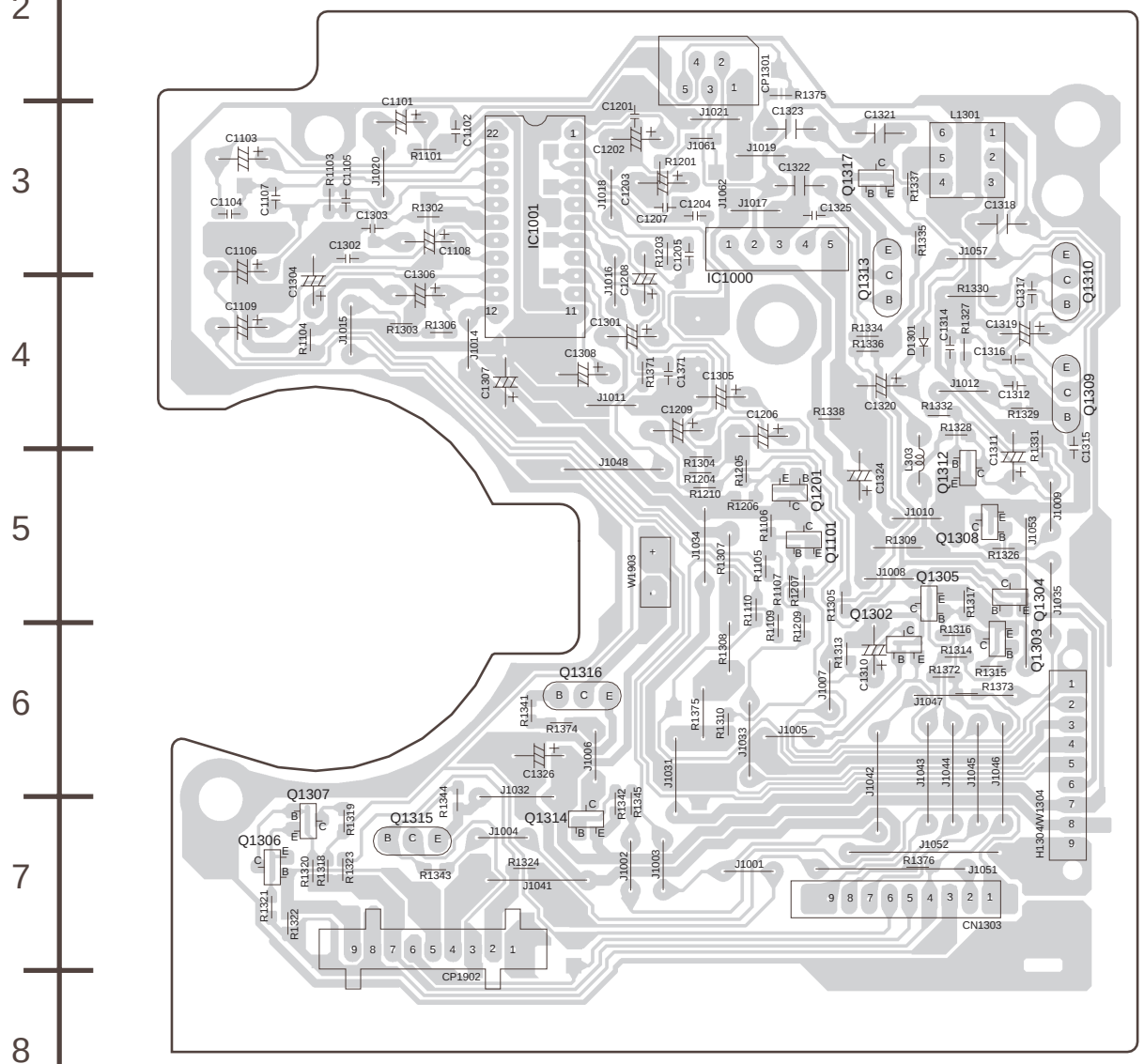
D PANEL P.C.B. (REPX0316A)



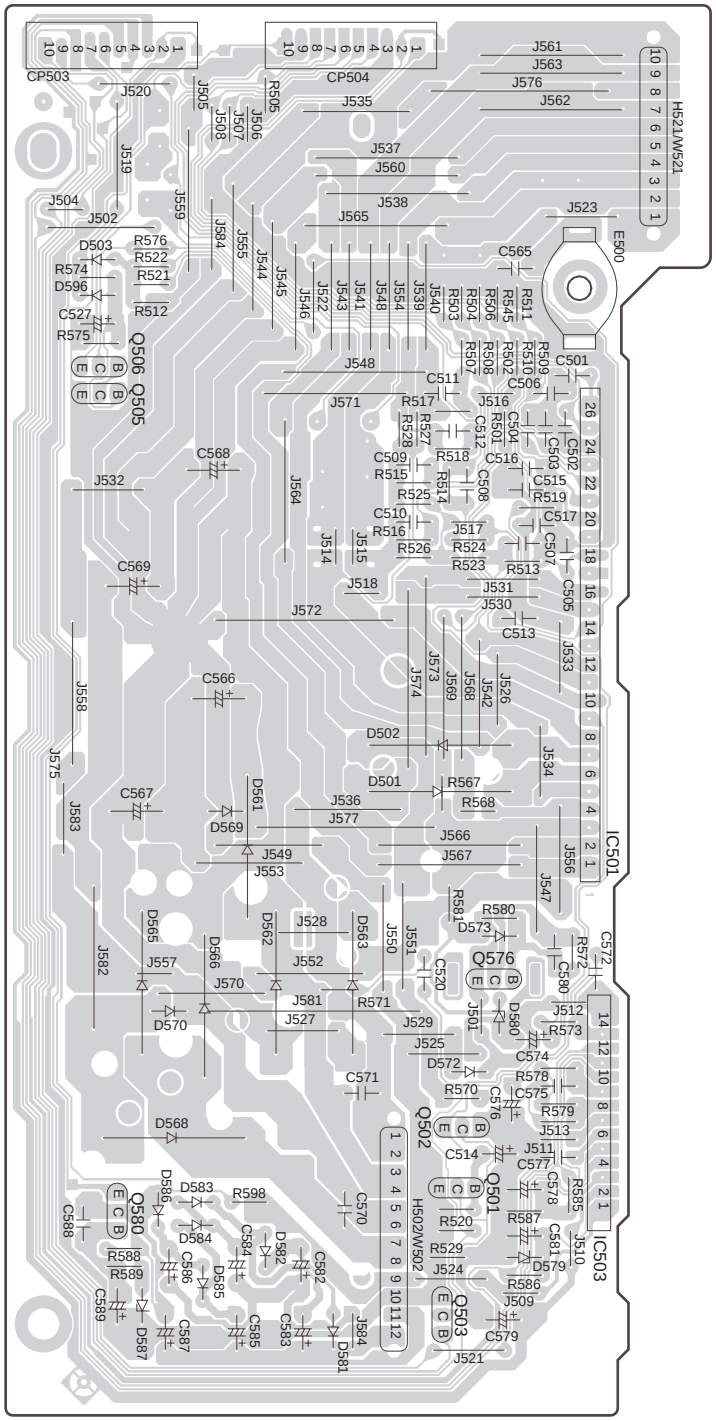
G H I J K L M


D601
R601
S623
POWER
H603A/W603
R607
R613
S612
DEMO
R609
C614
R913
X602
J694
Q601
C616
J607
J606
W700
J601
J600
R632
R631
J612
J611
J610
J609
J602
J608
R655
X601
R653
R654
C612
D656
R630
R629
J613
J603
J614
J604
C615
R640
R639
J615
R646
R645
C607
C606
C610
C605
J616
R647
J617
R638
R611
C602
C601
R610
R623
S613
CLOCK/TIMER
R624
IC601
J621
J618
J619
L602
C604
R914
C627
C629
R644
J620
J622
IC603
C603
R642
R643
J909
J628
R905
R909
R906
R908
R641
R995
J623
R612
R625
S614
PLAY/REC
FL601
J624
C637
D653
J625
C636
J626
R689
J627
S615
SELECTOR
J642
J643
J635
J637
J636
J641
J640
J639
J638
J634
J633
J632
J631
Q609
R691
R690
D654
J630
J629
Q610
H605A/W605
H602/W602

E DECK P.C.B. (REP3079A)



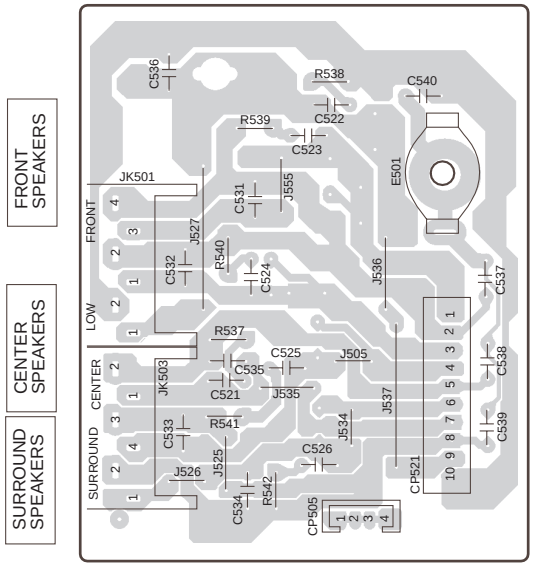
G POWER P.C.B. (REP3077A)



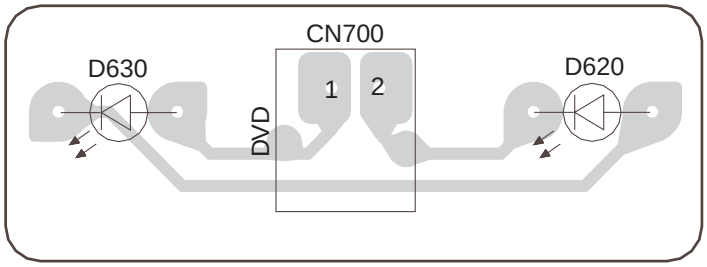
A B C D E F G

1 2 3 4 5 6 7 8 9

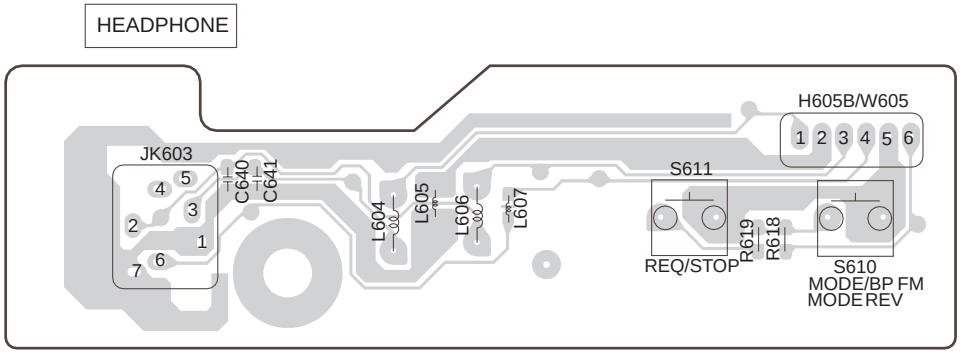
H SPEAKER P.C.B. (REPX0317A)



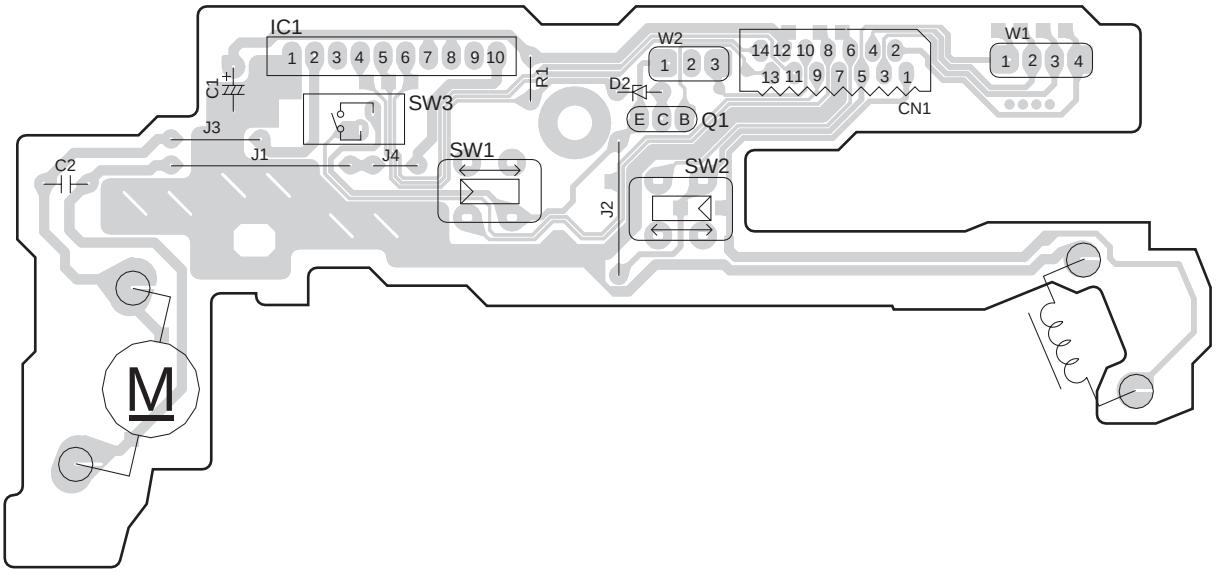
P LED P.C.B. (REPX0316A)



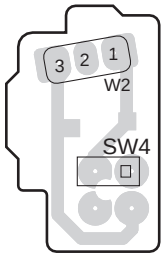
Q HEADPHONE P.C.B. (REPX0316A)



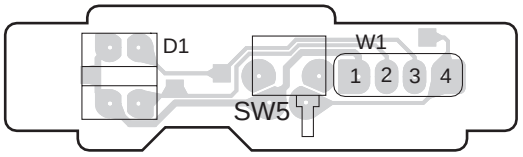
I CD LOADING P.C.B (REP2578A-N)



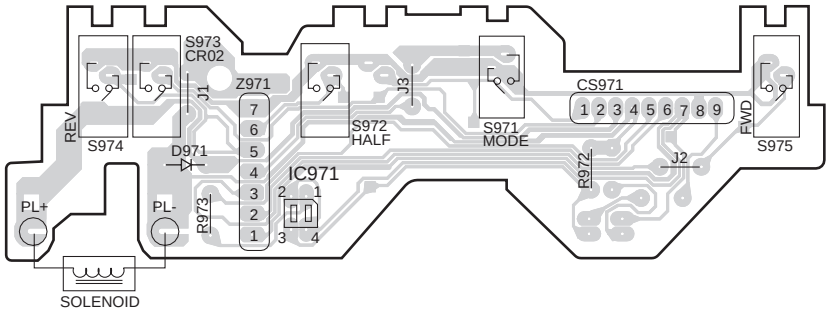
J CD DETECT P.C.B (REP2578A-N)



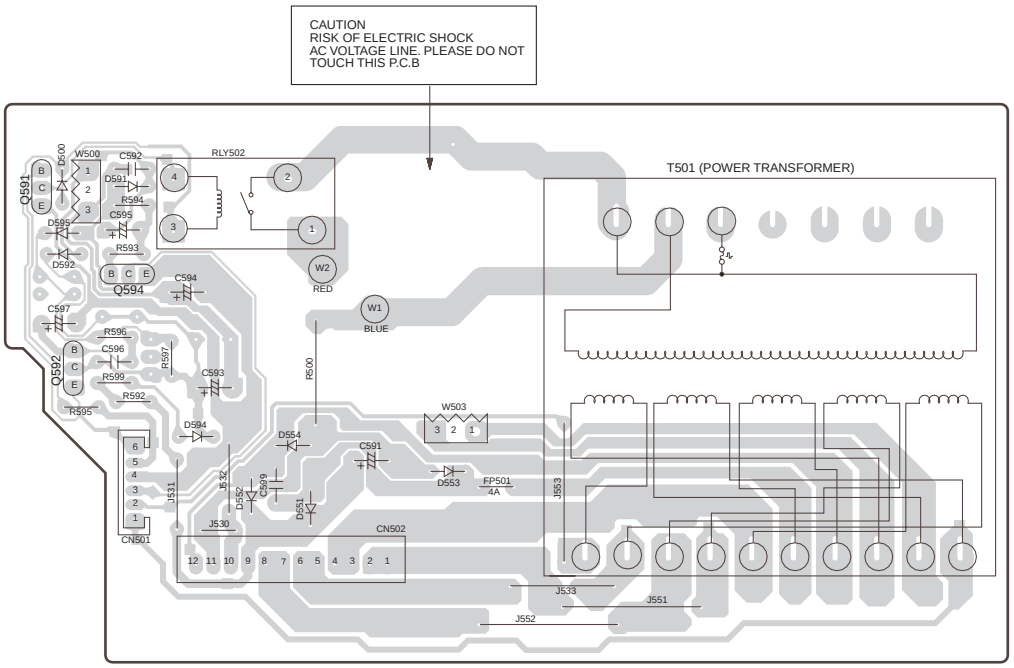
K SPINDLE POSITION P.C.B (REP2578A-N)



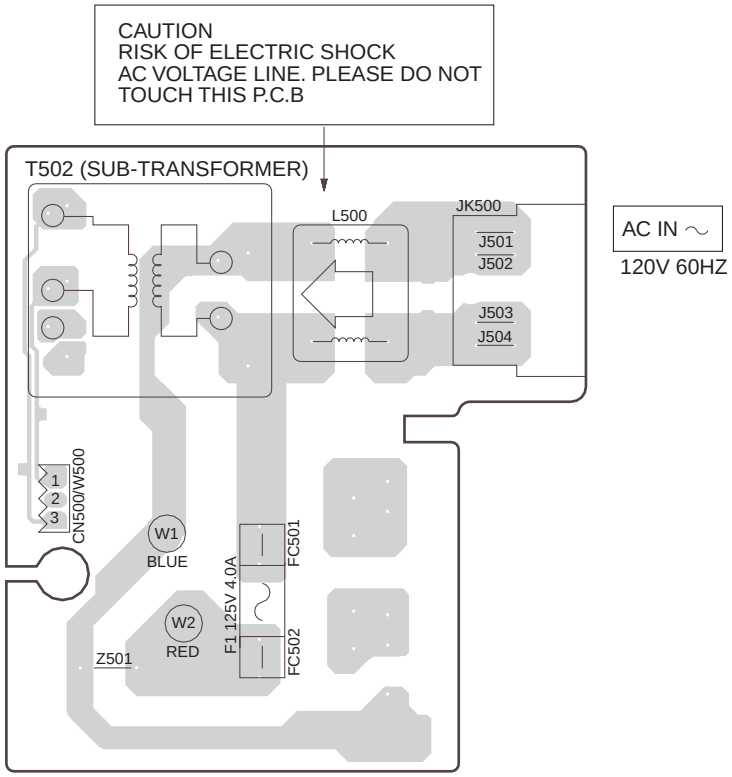
F MECHANISM DECK P.C.B (REPX0108)



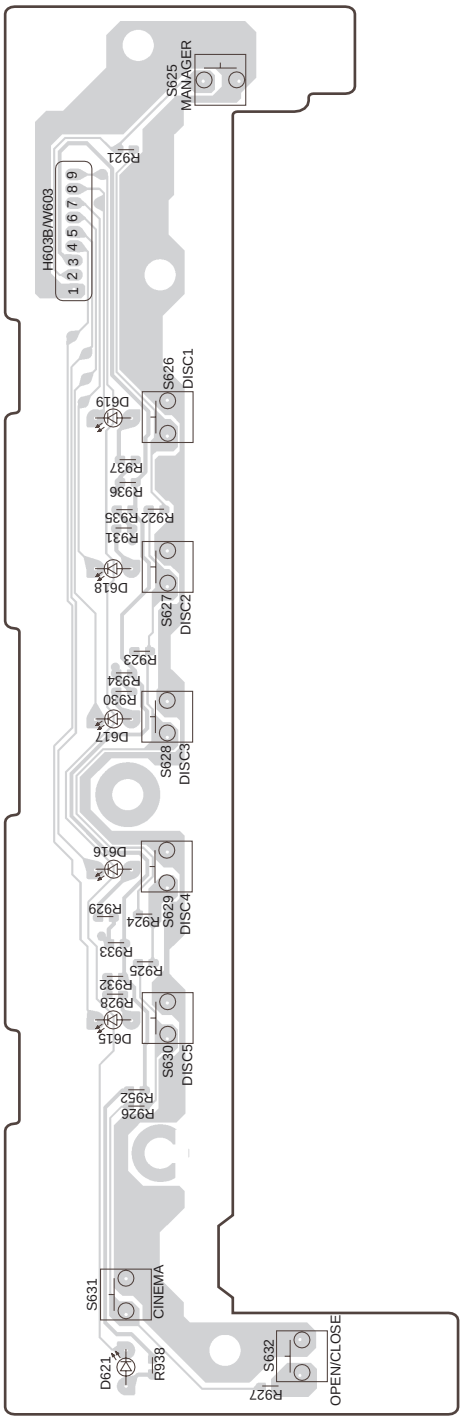
L AC TRANSFORMER P.C.B. (REPX0317A)



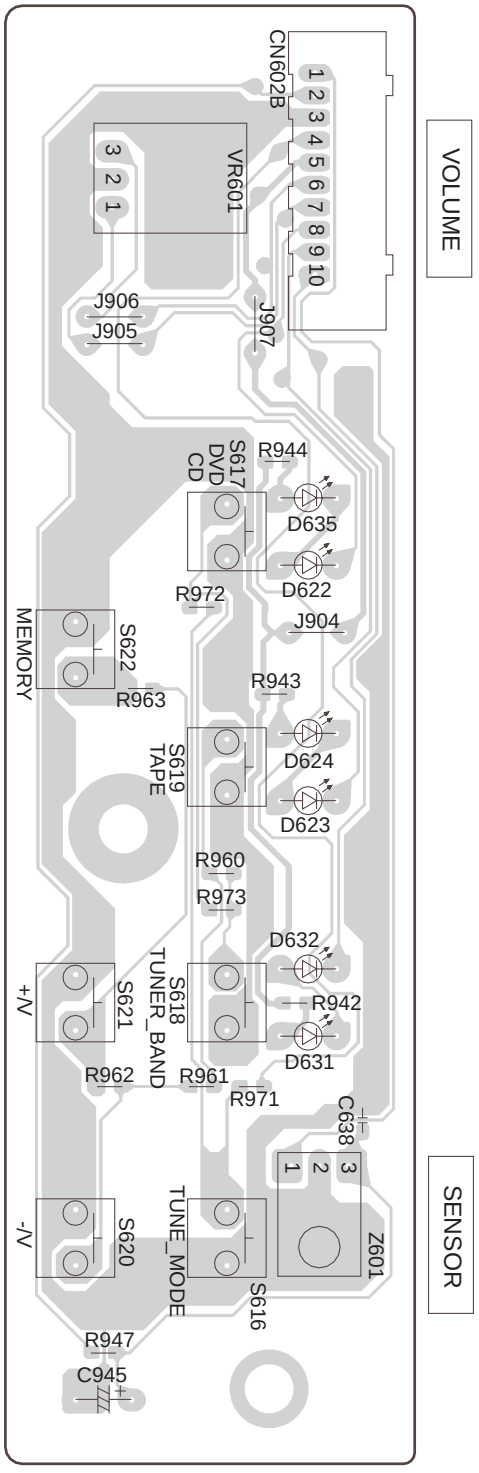
M SUB TRANSFORMER P.C.B. (REPX0317A)



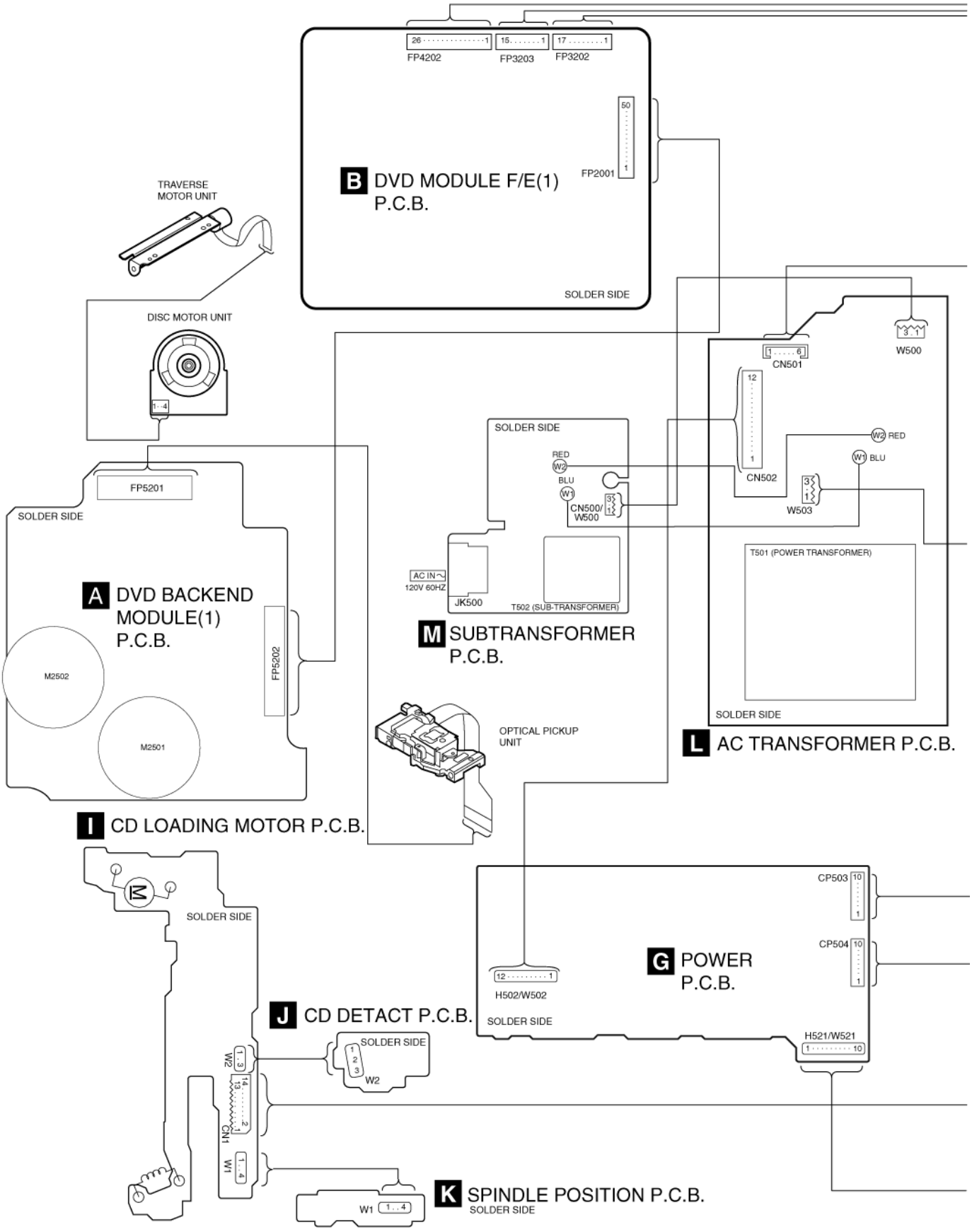
N TACT SWITCH (1) P.C.B. (REPX0316A)

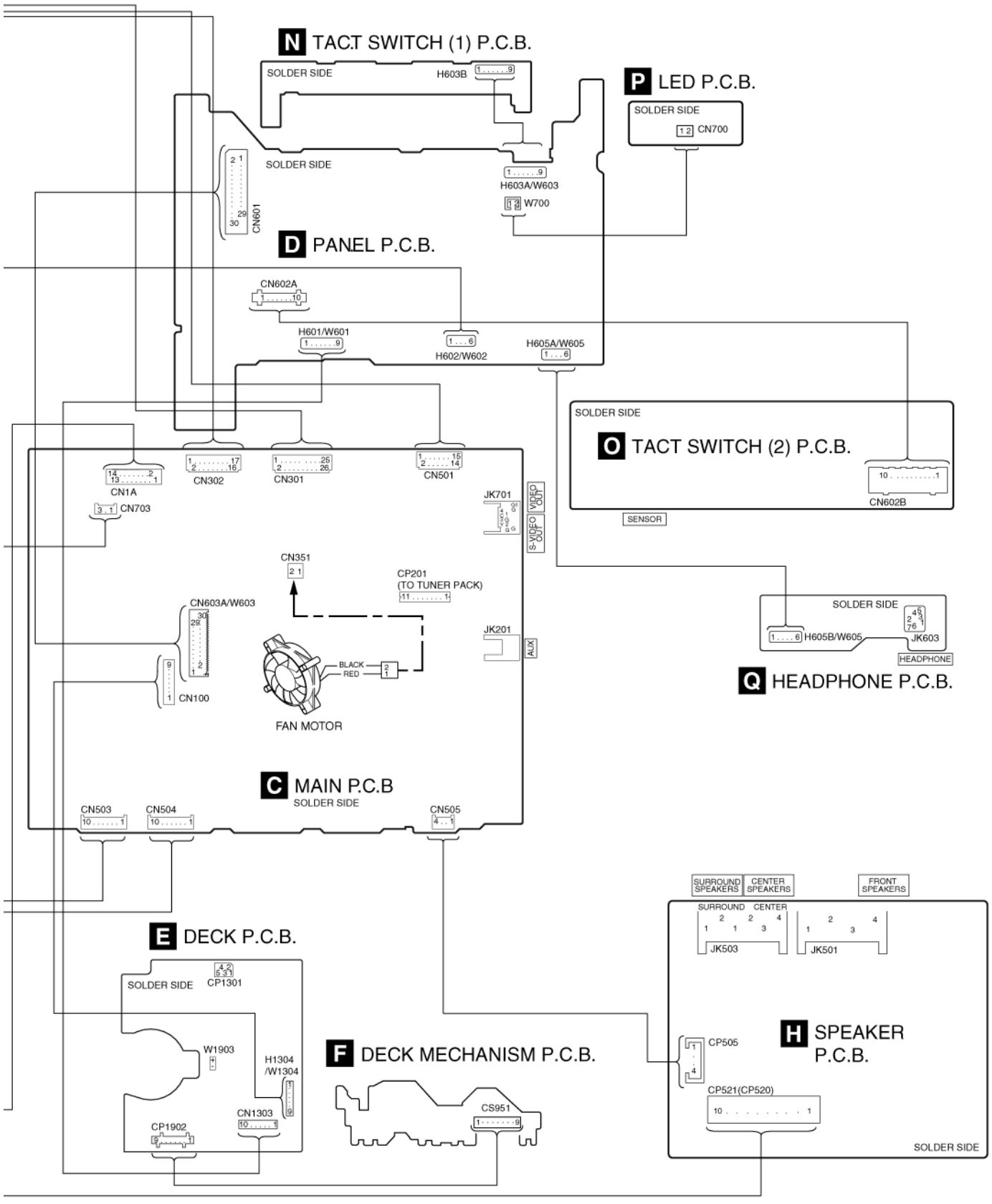


O TACT SWITCH (2) P.C.B. (REPX0316A)



16 Wiring Connection Diagram




N TACT SWITCH (1) P.C.B.
SOLDER SIDE
H603B
P LED P.C.B.
SOLDER SIDE
CN700
SOLDER SIDE
CN601
H603A/W603
W700
D PANEL P.C.B.
CN602A
H601/W601
H602/W602
H605A/W605
SOLDER SIDE
O TACT SWITCH (2) P.C.B.
CN602B
SENSOR
CN1A
CN703
CN302
CN301
CN501
JK701
VIDEO OUT
S-VIDEO OUT
CN351
CP201
(TO TUNER PACK)
CN603A/W603
JK201
AUX
CN100
BLACK
RED
FAN MOTOR
SOLDER SIDE
H605B/W605
JK603
HEADPHONE
Q HEADPHONE P.C.B.
C MAIN P.C.B
SOLDER SIDE
CN503
CN504
CN505
SURROUND SPEAKERS
CENTER SPEAKERS
FRONT SPEAKERS
SURROUND
CENTER
JK503
JK501
E DECK P.C.B.
SOLDER SIDE
CP1301
W1903
H1304
/W1304
CN1303
CP1902
F DECK MECHANISM P.C.B.
CS951
CP505
H SPEAKER P.C.B.
CP521(CP520)
SOLDER SIDE

17 Parts Location and Replacement Parts List

Notes:

- Important safety notice:

  Components identified by ⚠ mark have special characteristics important for safety.

  Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

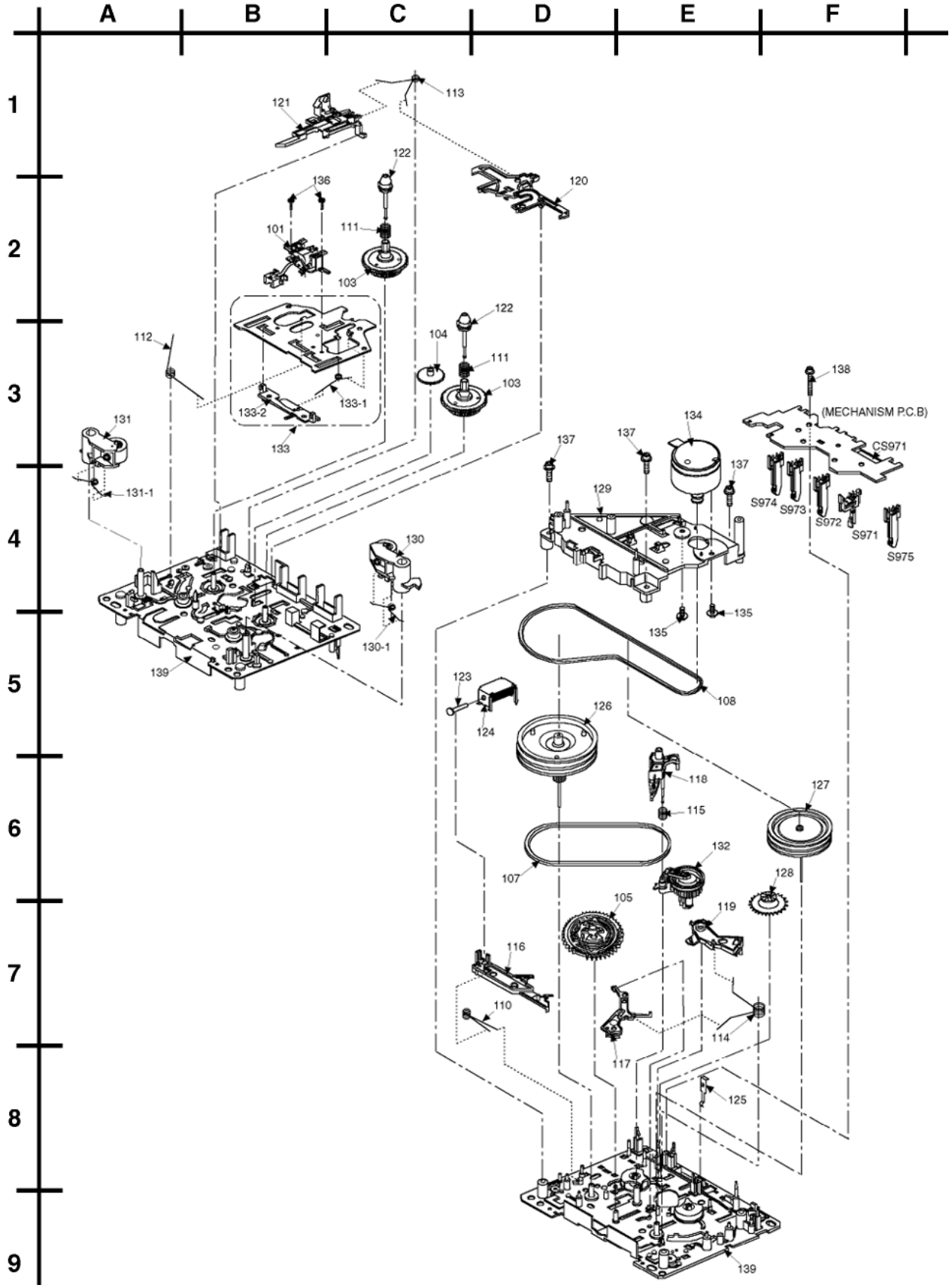
  When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.
- The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to teh cover page for area or colour)

  Parts without these indications can be used for all areas.
- Warning: This product uses a laser diode. Refer to caution statements on "Precaution of Laser Diode".
- Capacitor values are in microfarads (µF) unless specified otherwise, P= Pico-farads (pF), F= Farads.
- Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.
- The "(SF)" mark denotes the standard part.
- Reference for O/I book languages are as follows:

Ar :	Arabic	Du :	Dutch	It :	Italian	Sp :	Spanish
Cf :	Canadian French	En :	English	Ko :	Korean	Sw :	Swedish
Cz :	Czech	Fr :	French	Po :	Polish	Co :	Traditional Chinese
Da :	Danish	Ge :	German	Ru :	Russian	Cn :	Simplified Chinese

17.1. Deck Mechanism (RAA4110-S)

17.1.1. Deck Mechanism Parts Location

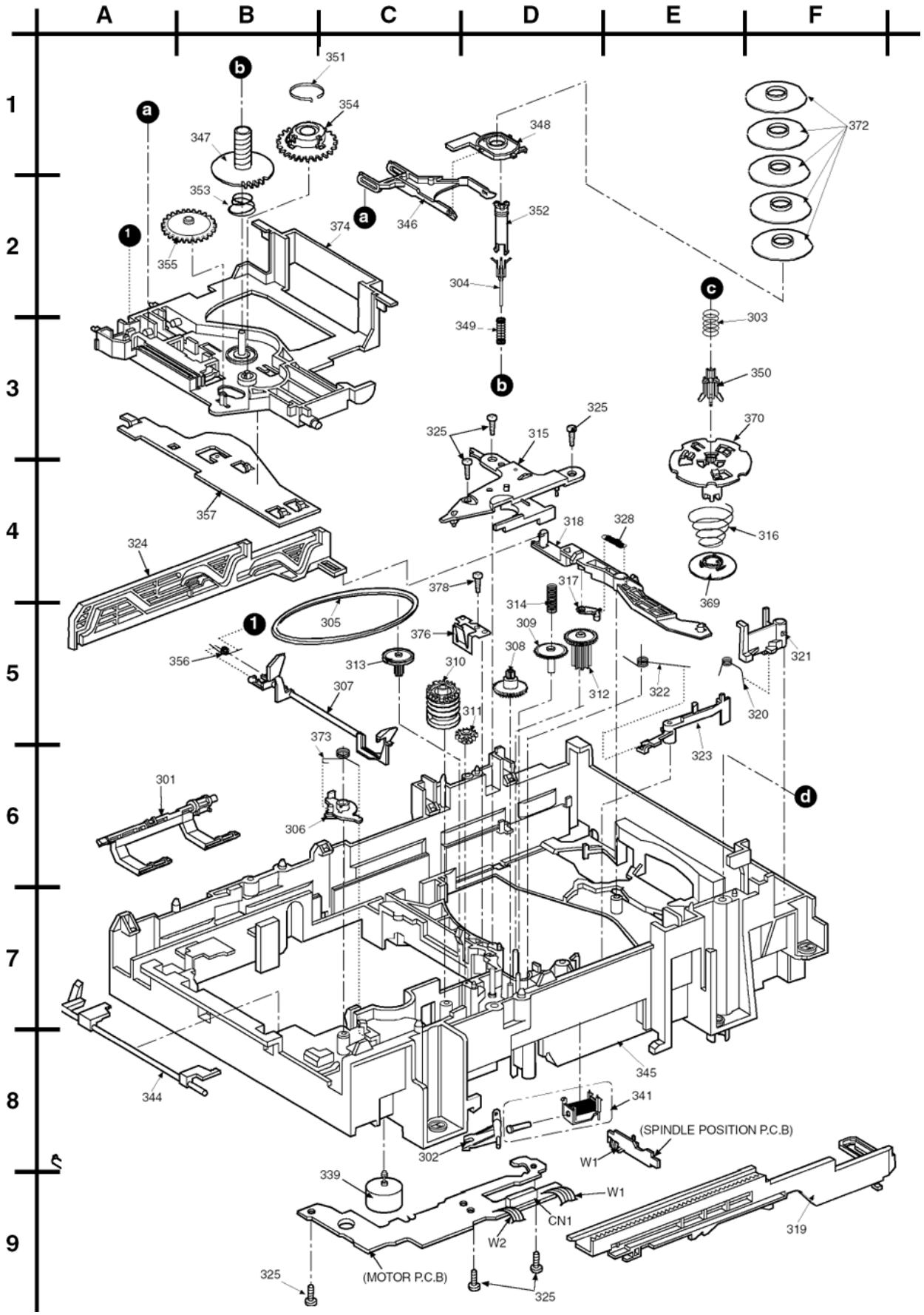


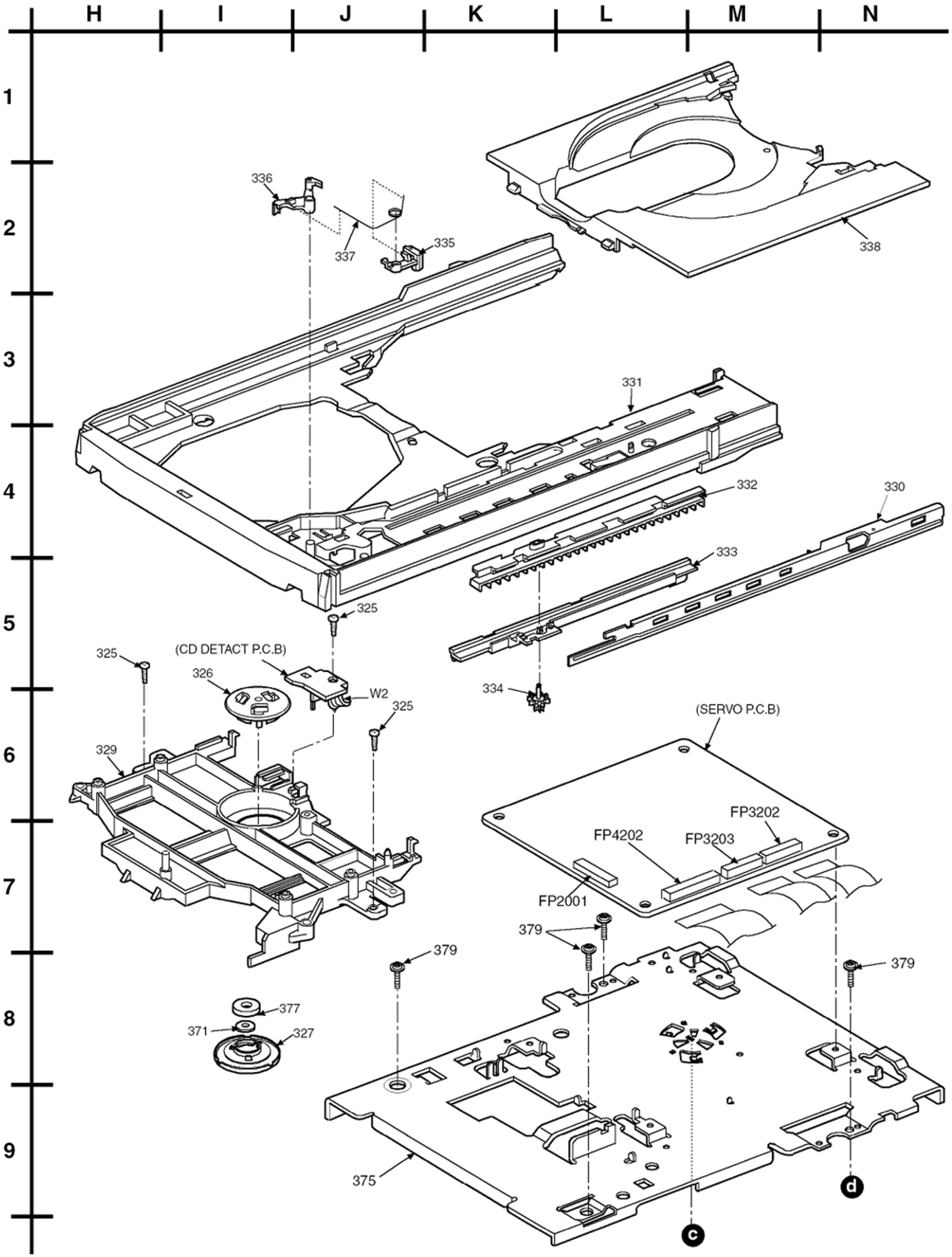
17.1.2. Deck Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK	
101	RED0071	R/P HEAD BLOCK UNIT	[M]
103	RDG0300	REEL BASE GEAR	[M]
104	RDG0301	WINDING RELAY GEAR	[M]
105	RDK0026	MAIN GEAR	[M]
107	RDV0033-4	WINDING BELT	[M]
108	RDV0034-1	CAPSTAN BELT A	[M]
110	RMB0312	TRIGGER LEVER SPRING	[M]
111	RMB0400	REEL SPRING	[M]
112	RMB0403	HEAB PANEL SPRING	[M]
113	RMB0404	BRAKE ROD SPRING	[M]
114	RMB0406	FR LEVER SPRING	[M]
115	RMB0408	THRUST SPRING	[M]
116	RML0370	TRIGGER LEVER	[M]
117	RML0371	FR LEVER	[M]
118	RML0372	WINDING LEVER	[M]
119	RML0374	EJECT LEVER	[M]
120	RMM0131	BRAKE ROD	[M]
121	RMM0133-1	EJECT ROD	[M]
122	RMQ0519	REEL HUB	[M]
123	RMS0398-1	MOVING CORE	[M]
124	RSJ0003	PLUNGER	[M]
125	RMC0061	PACK SPRING	[M]
126	RXF0061	FLYWHEEL F ASSY	[M]
127	RXF0062	FLYWHEEL R ASSY	[M]
128	RXG0040	FF RELAY GEAR ASSY	[M]
129	RMK0283A-J	SUB-CHASSIS	[M]
130	RXL0124	PINCH ROLLER F ASSY	[M]
130-1	RMB0401	PINCH ARM SPRING F	[M]
131	RXL0125	PINCH ROLLER R ASSY	[M]
131-1	RMB0402	PINCH ARM SPRING R	[M]
132	RXL0126	WINDING ARM ASSY	[M]
133	RXQ0412	HEAD PANEL ASSY	[M]
133-1	RMB0405	FR ROD SPRING	[M]
133-2	RMM0132	FR ROD	[M]
134	REM0098	CAP MOTOR ASSY	[M]
135	RHD26022	MOTOR SCREW	[M]
136	XTW2+5L	HEAD BLOCK UNIT SCRE	[M]
137	XTW26+10S	SUB-CHASSIS SCREW	[M]
138	XYC2+JF17	PCB EARTH SCREW	[M]
139	RFKJSTR280PP	MAIN CHASSIS ASS’Y	[M]

17.2. CD Loading Mechanism (RD-DAC036-S)

17.2.1. CD Loading Mechanism Parts Location

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(SERVO P.C.B)
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FP4202
FP3203
FP2001
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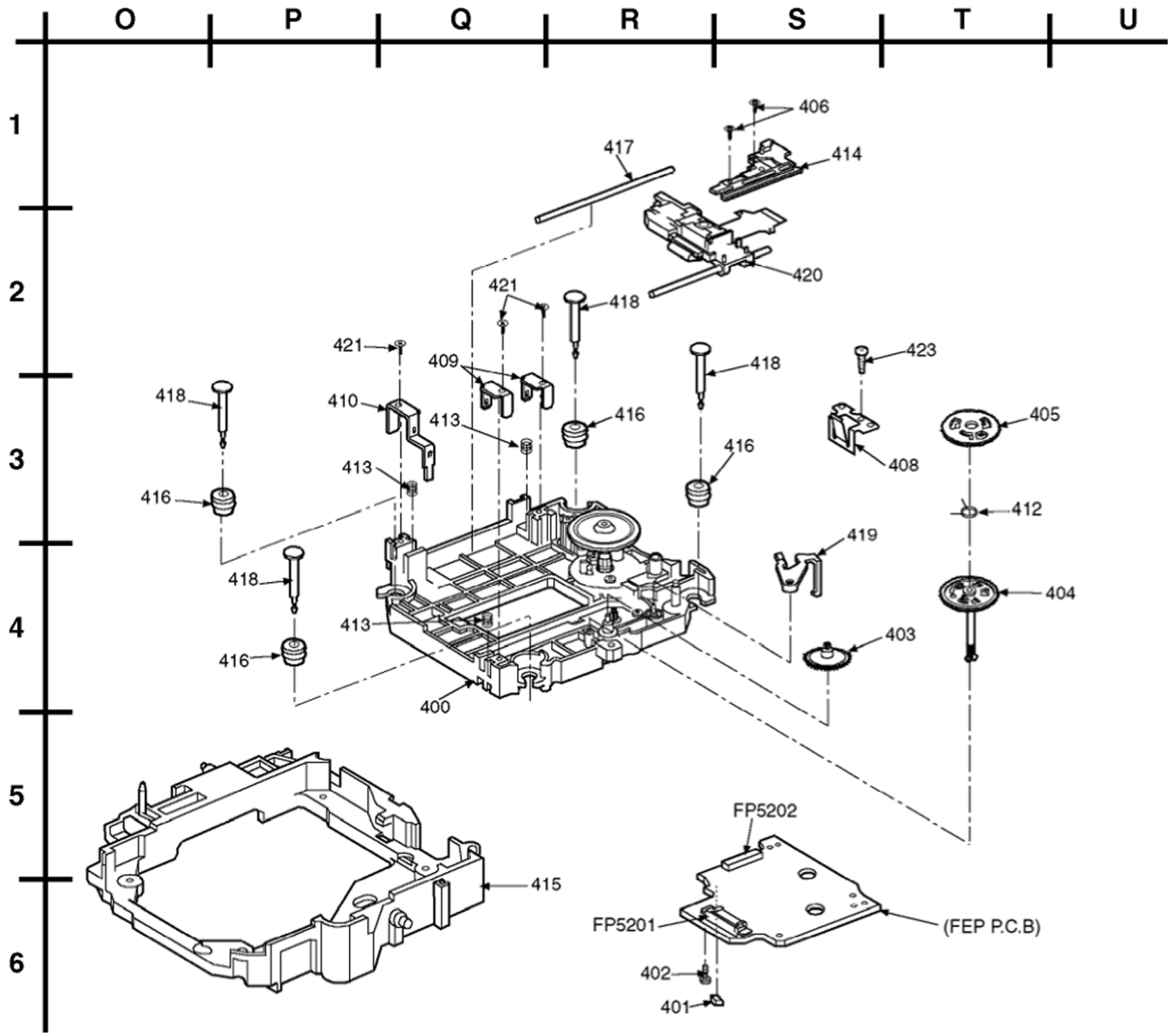
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FP5202
FP5201
(FEP P.C.B)
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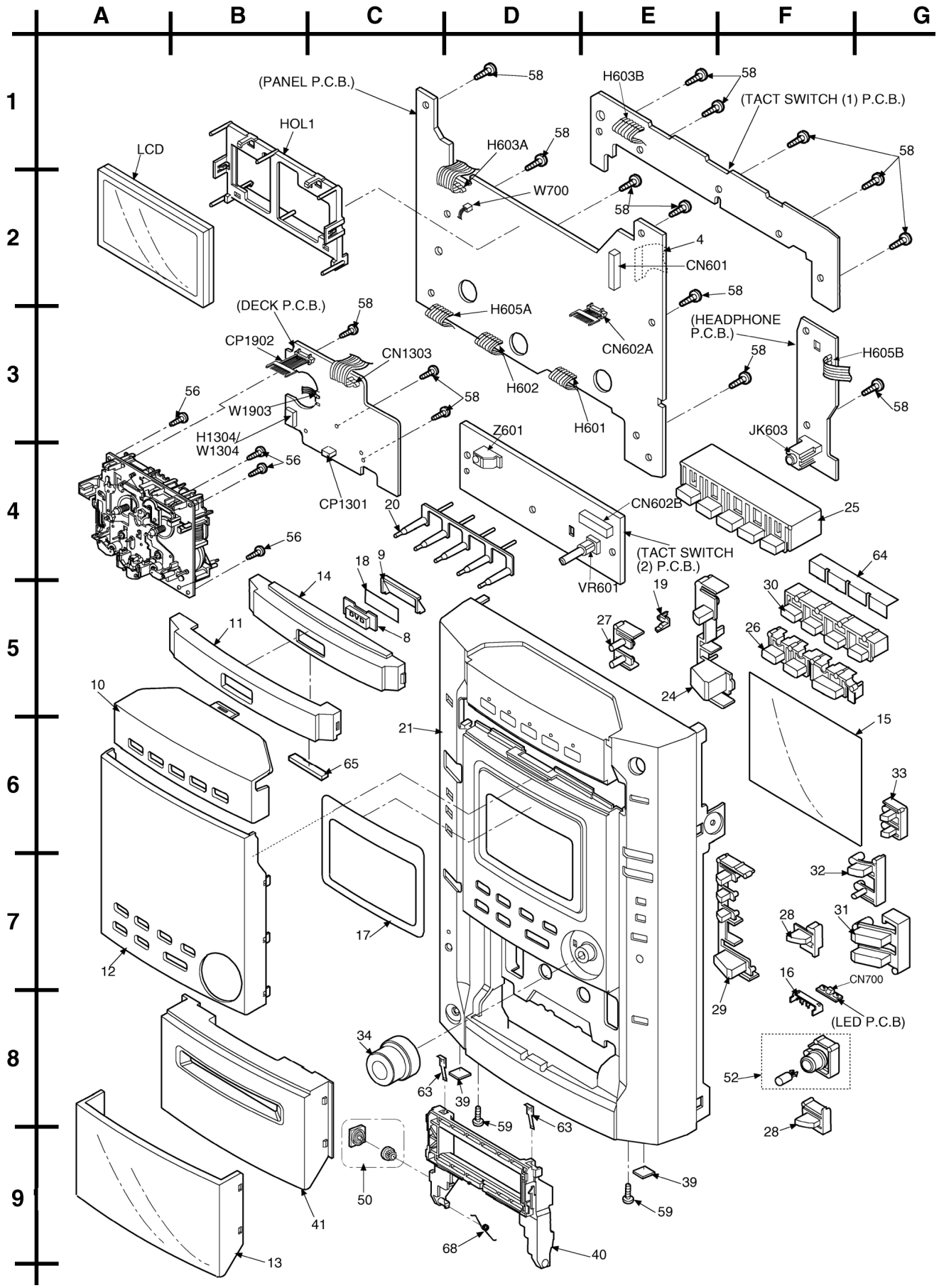
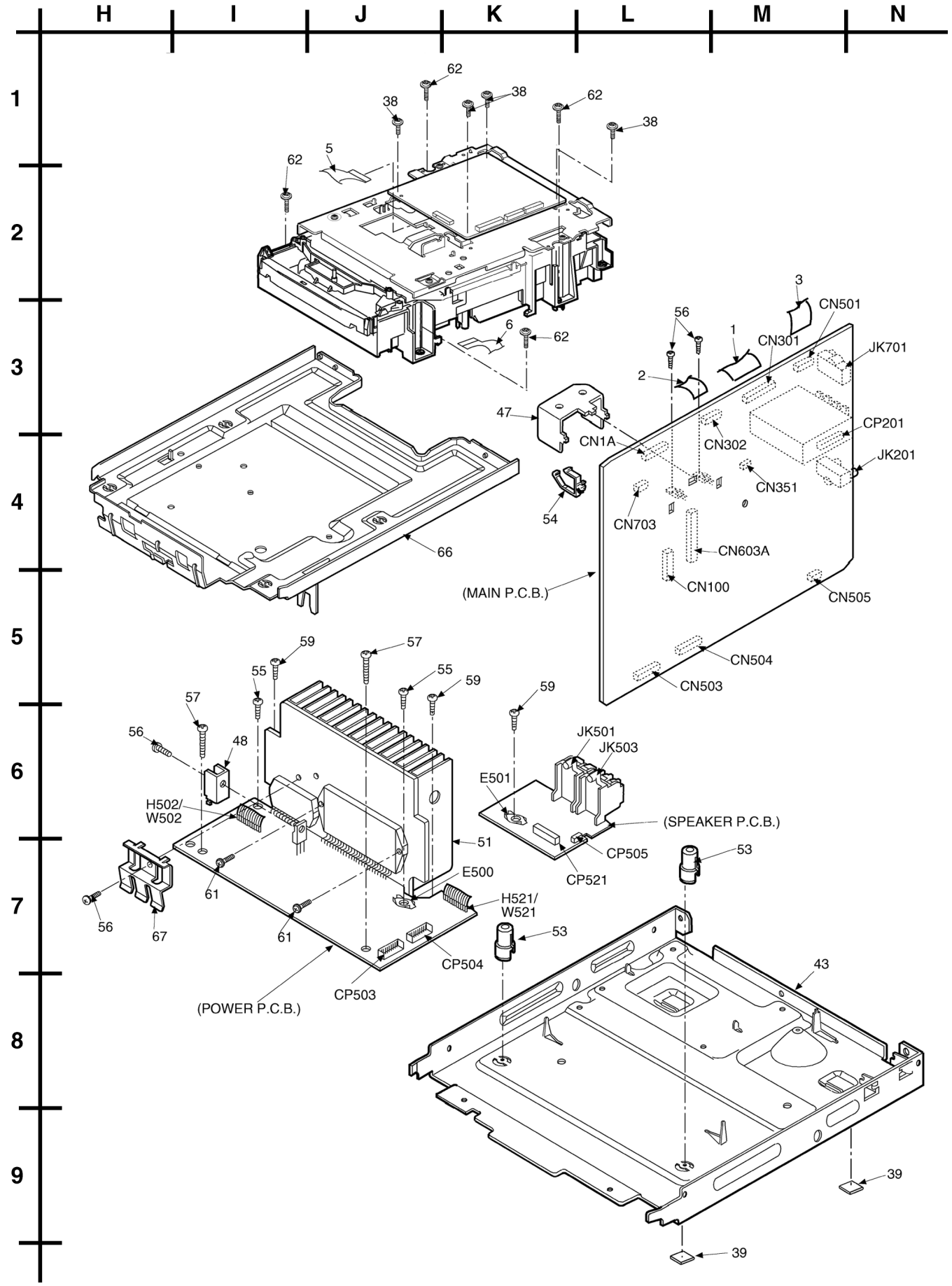
17.2.2. CD Loading Mechanism Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK	
301	RML0517	TIMING LEVER	[M]
302	RML0516	PLUNGER LEVER	[M]
303	RMB0551	UPPER SPINDLE SPRING	[M]
304	RMQ0744	LOWER HOOK	[M]
305	RDV0056	BELT	[M]
306	RML0525	FRONT LOCK	[M]
307	RML0526	DISC LEVER	[M]
308	RDG0424	DRIVE GEAR	[M]
309	RDG0425	CHANGE GEAR	[M]
310	RDG0427	TRV CAM GEAR	[M]
311	RDG0428	TRV RELAY GEAR	[M]
312	RDG0426	UP/DOWN GEAR	[M]
313	RDG0429	PULLEY GEAR	[M]
314	RMB0549-1	CHANGR GEAR SPRING	[M]
315	RMQ0748	PITCH PLATE	[M]
316	RMB0553	PUSH SPRING	[M]
317	RML0530	ASSIST LEVER	[M]
318	RML0518	CONNECTION LEVER	[M]
319	RMM0201	SLIDE PLATE 1	[M]
320	RME0258	REAR LOCK SPRING	[M]
321	RML0521	REAR LOCK LEVER	[M]
322	RME0257	TRAY LOCK LEVER SPRI	[M]
323	RML0520	TRAY LOCK	[M]
324	RMM0202	SLIDE PLATE 2	[M]
325	XTB3+10J	SCREW	[M]
326	RMR1367-K	FIXED PLATE	[M]
327	RMR0624-W	CLAMPER	[M]
328	RMB0561	ASSIST LEVER SPRING	[M]
329	RMR1121-K	MECHA COVER	[M]
330	RMA1110-2	TRAY ANGLE	[M]
331	RMR1122-H1	TRAYBASE	[M]
332	RMM0204	CARRIER	[M]
333	RMM0203	DRIVE RACK	[M]
334	RDG0432	SPEED UP GEAR	[M]
335	RML0524	SLIDE LOCK	[M]
336	RML0523	CARRIER LOCK	[M]
337	RME0260-1	SLIDE LOCK SPRING	[M]
338	RMR1123-H	TRAY	[M]
339	RXQ0595	MOTOR ASSY	[M]
341	RSJ0003	SOLENOLD ASSY	[M]
344	RML0519	8CD LEVER	[M]
345	RFKNAAK27GCS	MECHA BASE ASS'Y	[M]
346	RML0522	TURNING STOPPER	[M]
347	RMQ0745	LOWER SPINDLE	[M]
348	RMQ0746	UP/DOWN BASE	[M]
349	RMB0550	LOWER SPINDLE SP	[M]
350	RMQ0747	UPPER HOOK	[M]
351	RME0263	CLICK SPRING	[M]
352	RMQ0743	SPINDLE SHAFT	[M]
353	RMB0552	CUSHION SPRING	[M]
354	RDG0430	RELAY GEAR A	[M]
355	RDG0431	RELAY GEAR B	[M]
356	RME0262	DISK LEVER SP.	[M]
357	RMA1105	SUPPORT PLATE	[M]
369	RMX0141	PUSH SPACER	[M]
370	RMQ0749	UPPER SPINDLE	[M]
371	RHM0001	MAGNET	[M]
372	RMX0140	DISC SPACER	[M]
373	RME0261	FRONT LOCK SPRING	[M]
374	RMQ0742	SPINDLE BASE	[M]
375	RMA1435	PB ANGLE	[M]
376	RMC0387	SUPPORT SPRING	[M]
377	RMA1003	BACK YOKE	[M]
378	XTV2+6G	PCB SCREW	[M]
379	XTW3+10T	SCREW	[M]
400	RAE1811Z-S	TRV BASE UNIT	[M]
401	RMG0558-K	P.C.B. RUBBER	[M]
403	RDG0499	TRV GEAR A	[M]
404	RDG0500	TRV GEAR B	[M]
405	RDG0501	TRV GEAR C	[M]
406	RHD17036	DRIVE RACK SCREW	[M]
409	RMC0415	ADJUST SPRING HOLDER	[M]
410	RMC0416	ADJUST SPRING HOLDER	[M]
412	RME0319	TRV GEAR SPRING	[M]
413	RME0320	ADJUSTMENT SPRING	[M]
414	RMM0234-1	TRV DRIVE RACK	[M]
415	RMR1366-K	UNIT CHASSIS	[M]
416	RMG0545-A	FLOATING RUBBER	[M]
417	RMS0711	GUIDE SHAFT	[M]
418	RMS0712-1	FIXED PIN	[M]
419	RMX0192	INNER STOPPER	[M]
420	RXQ0810	OPU UNIT	[M]
421	VHD1224	AJD SPRING H. SCCREW	[M]
422	RXQ0749	SPINLDE MOTOR ASS'Y	

17.3. Cabinet

17.3.1. Cabinet Parts Location

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CN301
JK701
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CP201
CN1A
CN302
JK201
CN351
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CN703
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CN603A
(MAIN P.C.B.)
CN100
CN505
CN504
CN503
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JK501
JK503
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(SPEAKER P.C.B.)
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CP505
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CP521
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CP504
CP503
(POWER P.C.B.)
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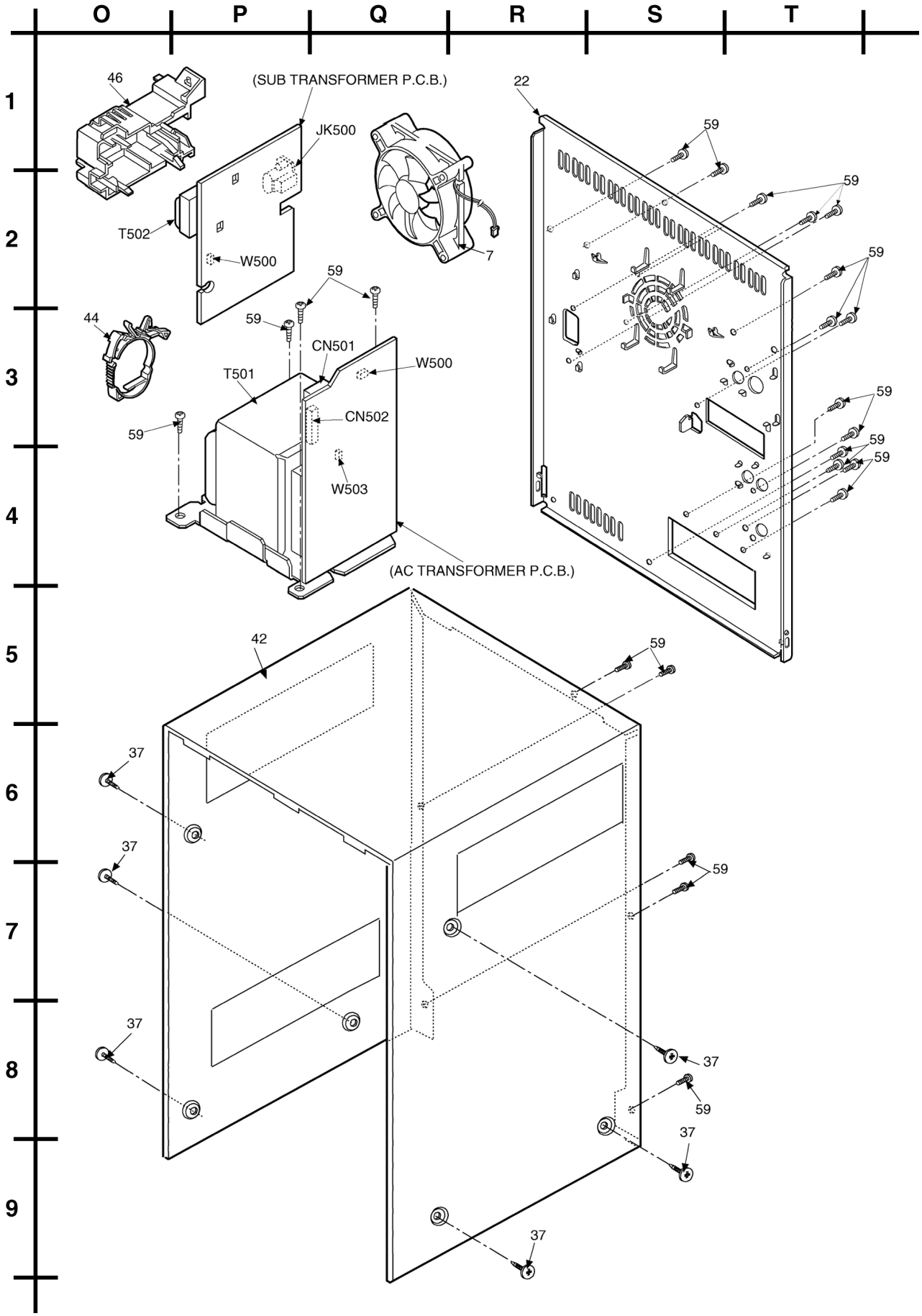
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(SUB TRANSFORMER P.C.B.)
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W500
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CN501
T501
CN502
W503
(AC TRANSFORMER P.C.B.)
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17.3.2. Cabinet Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REE1074-1	15P FFC WIRE	[M]
2	REE1075	17P FFC WIRE	[M]
3	REE1076-1	26P FFC WIRE	[M]
4	REE1077-1	30P FFC WIRE	[M]
5	REE1078-J	50P FFC	[M]
6	REE1112	14P FFC WIRE	[M]
7	REM0072-3	FAN	[M]
8	RGB0124-S	DVD BADGE	[M]
9	RGC0028-W	REFLECTION PLATE	[M]
10	RGK1342C-Q	TOP ORNAMENT	[M]
11	RGK1343-Q	CD LID ORNAMENT	[M]
12	RGK1344-Q	PANEL ORNAMENT	[M]
13	RGK1345-Q	CASS ORNAMENT	[M]
14	RGK1346-S	CD LID	[M]
15	RGK1348-V	FL FILTER	[M]
16	RGK1349-Q	LED COVER	[M]
17	RGK1375-S	FL SHEET	[M]
18	RGK1376-W	BADGE FILTER	[M]
19	RGL0538-W	LIGHTING CHIP	[M]
20	RGL0539-W	DISC LIGHTING CHIP	[M]
21	RGP0846D-S2	FRONT PANEL	[M]
22	RGR0307D-A12	REAR PANEL	[M]P
22	RGR0307D-B12	REAR PANEL	[M]PC
24	RGU1955-S	POWER BUTTON	[M]
25	RGU1956-S	DISC BUTTON	[M]
26	RGU1957-S	MAIN BUTTON	[M]
27	RGU1958-S	REC BUTTON	[M]
28	RGU1959-S	OPEN/CLOSE BUTTON	[M]
29	RGU1960-S	DEMO BUTTON	[M]
30	RGU1961-Q	FUNCTION BUTTON	[M]
31	RGU1962-Q	DPL BUTTON	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
32	RGU1977A-Q	EQ BUTTON	[M]
33	RGU1977A-S	EQ BUTTON	[M]
34	RGW0361-S	MAIN VOLUME KNOB	[M]
37	RHD30002-H	SCREW	[M]
38	RHD30078	SCREW	[M]
39	RKA0059-K	LEG RUBBER	[M]
40	RKF0585-K2J	CASS. HOLDER (L)	[M]
41	RKF0615-S	CASSETTE LID	[M]
42	RKM0433-S	TOP CABINET	[M]
43	RMK0479-1	BOTTOM CHASSIS	[M]
44	RMR1350-K	WIRE CLIP	[M]
46	RMNX0029C-A	SUB TRANS HOLDER	[M]
47	RMY0241	SUB HEAT SINK	[M]
48	RMY0285	SMALL HEAT SINK	[M]
50	RXG0049	DAMPER GEAR UNIT	[M]
51	RXX0234	HEAT SINK UNIT	[M]
52	RYQ0351-Q	CINEMA BUTTON UNIT	[M]
53	SHE187-6J	PCB SUPPORT	[M]
54	SHR301	LEAD CLAMPER	[M]
55	XTB3+10J	SCREW	[M]
56	XTB3+10JFZ	SCREW	[M]
57	XTB3+20J	SCREW	[M]
58	XTBS26+10J	SCREW	[M]
59	XTBS3+8JFZ1	SCREW	[M]
61	XTW3+15T	SCREW	[M]
62	XTW3+8T	SCREW	[M]
63	RUS757ZAA	CASSETTE HALF SPRING	[M]
64	RGQ0319-W	FUNCTION LIGHTING SH	[M]
65	RMQ1042	CD LID SPACER	[M]
66	RMK0480-1	CD CHASSIS	[M]
67	RMC0432	REGULATOR CLUMPER	[M]
68	RMB0474	CASS. OPEN SPRING	[M]

17.4. Electrical Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PRINTED CIRCUIT BOARD	
	REP3091A-N	DVD F/E MODULE (1/2) P.C.B.	[M](RTL)
	REP3091A-N	DVD F/E MODULE (2/2) P.C.B.	[M](RTL)
	REP3303L	DVD B/E MODULE (1/2) P.C.B.	[M](RTL)
	REP3303L	DVD B/E MODULE (2/2) P.C.B.	[M](RTL)
	REPX0315A	MAIN P.C.B.	[M](RTL)
	REPX0316A	PANEL P.C.B.	[M](RTL)
	REP3079A	DECK P.C.B.	[M](RTL)
	REP3077A	POWER P.C.B.	[M](RTL)
	REPX0317A	SPEAKER P.C.B.	[M](RTL)
	REPX0316A	LED P.C.B.	[M](RTL)
	REPX0316A	HEADPHONE P.C.B.	[M](RTL)
	REP2578A-N	CD LOADING P.C.B.	[M](RTL)
	REP2578A-N	CD DETECT P.C.B.	[M](RTL)
	REP2578A-N	SPINDLE POSITION P.C.B.	[M](RTL)
	REPX0317A	SUB TRANSFORMER P.C.B.	[M](RTL)
	REPX0317A	AC TRANSFORMER P.C.B.	[M](RTL)
	REPX0316A	TACT SWITCH (1) P.C.B.	[M](RTL)
	REPX0316A	TACT SWITCH (2) P.C.B.	[M](RTL)
	REPX0108	MECHANISM DECK P.C.B.	[M](RTL)
		INTEGRATED CIRCUITS	
IC1	C0GAM0000005	IC DRIVE	[M]
IC201	NJU7313AMT2	IC SELECTOR	[M]
IC202	M5218AFPE3	IC OP AMP	[M]
IC203	M5218AP	IC OP AMP	[M]
IC204	M62456FPE1	IC BTL	[M]
IC205	M62444FPE1	IC 4CH VOL	[M]
IC206	C0JBAR000292	IC ANALOG SW	[M]
IC301	M5228FPE1	IC QUAD OP AMP	[M]
IC451	C2BBFD000307	IC MECHA CON	[M]
IC453	C2BBFD000308	IC DSP CON	[M]
IC501	RSN311W64B-P	IC HIC	[M] ⚠
IC503	STK470-050A	IC HIC	[M] ⚠
IC601	C2BBGF000359	IC MICROPROCESSOR	[M]
IC602	M62457AFPE1	IC SPECTRUM ANALYSER	[M]
IC603	C1BB00000574	IC I/O EXPANDER	[M]
IC604	C1BB00000574	IC I/O EXPANDER	[M]
IC702	C0DBAJG00002	IC REGULATOR	[M] ⚠
IC703	LM2940T5M	IC REGULATOR	[M] ⚠
IC705	M5228FPE1	IC QUAD OP AMP	[M]
IC706	M5228FPE1	IC QUAD OP AMP	[M]
IC801	C2HBZC000012	IC BH	[M]
IC971	CNB13030R2AU	IC PHOTO INTERRUPTER	[M]
IC1000	C1AA00000612	IC ANALOG SWITCH	[M]
IC1001	AN7326K	IC REC / PB	[M]
IC2001	MN677203NP1	IC OPTICAL DISC CONTROLLER	[M]
IC2061	C3ABKG000057	IC 4M DRAM	[M]
IC2501	C0GBG0000033	IC MOTOR DRIVE	[M]
IC3001	MN677533MP	IC AV DECODER	[M]
IC3061	C3ABMG000103	IC 16M SDRAM	[M]
IC3301	C1AB00001393	IC VBUFFER	[M]
IC4211	C0FBBK000021	IC 6CH AUDIO D/A CONVERTER	[M]
IC5201	AN8708FHK	IC FRONTEND PROCESSOR	[M]
IC6201	MN102H60GFC	IC CPU	[M]
IC6221	C0JBAA000001	IC INVERTER	[M]
IC6222	C0JBAA000001	IC INVERTER	[M]
IC6251	C0DBCGE00002	IC D3.3V REGULATOR	[M]
IC6301	PST596JNR	IC RESET	[M]
IC6302	RFKFMA62F080	IC 8M FLASH. ROM	[SPC]
IC6303	C3EBFC000030	IC 8M EEPROM	[M]
IC6501	C1DB00000582	IC CLK	[M]
		TRANSISTORS	
Q1	B1GACFGG0004	TRANSISTOR	[M]
Q201	B1GFGCAA0001	TRANSISTOR	[M]
Q202	B1ADCF000001	TRANSISTOR	[M]
Q203	B1ADCF000001	TRANSISTOR	[M]
Q204	B1GFGCAA0001	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q205	B1ADCF000001	TRANSISTOR	[M]
Q301	B1GFGCAA0001	TRANSISTOR	[M]
Q302	B1GFGCAA0001	TRANSISTOR	[M]
Q306	B1ADCF000001	TRANSISTOR	[M]
Q351	KTA12710YTA	TRANSISTOR	[M]
Q352	B1ABCF000011	TRANSISTOR	[M]
Q353	B1ABCF000011	TRANSISTOR	[M]
Q354	B1ABCF000011	TRANSISTOR	[M]
Q373	B1ABCF000011	TRANSISTOR	[M]
Q374	B1GBCFJA0002	TRANSISTOR	[M]
Q375	B1ADCF000001	TRANSISTOR	[M]
Q381	2SB14170QA	TRANSISTOR	[M]
Q382	B1ABCF000011	TRANSISTOR	[M] ⚠
Q383	2SB621ARSTA	TRANSISTOR	[M]
Q384	B1ABCF000011	TRANSISTOR	[M] ⚠
Q385	B1GDCFJJ0002	TRANSISTOR	[M]
Q451	2SB621ARSTA	TRANSISTOR	[M]
Q452	B1GBCFJN0004	TRANSISTOR	[M]
Q501	KTC3199GRTA	TRANSISTOR	[M]
Q502	KTC3199GRTA	TRANSISTOR	[M]
Q503	KTC3199GRTA	TRANSISTOR	[M]
Q505	KTC3199GRTA	TRANSISTOR	[M]
Q506	KRA102MTA	TRANSISTOR	[M] ⚠
Q576	KTC2026	TRANSISTOR	[M] ⚠
Q580	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q591	KTC3199GRTA	TRANSISTOR	[M]
Q592	2SC3940ARA	TRANSISTOR	[M] ⚠
Q594	KRC102MTA	TRANSISTOR	[M]
Q601	KRC103STA	TRANSISTOR	[M]
Q608	2SB621ARSTA	TRANSISTOR	[M]
Q609	B1GBCFJJ0002	TRANSISTOR	[M]
Q610	B1ADCF000001	TRANSISTOR	[M]
Q701	B1GDCFJJ0002	TRANSISTOR	[M] ⚠
Q702	B1GBCFJN0004	TRANSISTOR	[M] ⚠
Q703	KTA1046YU	TRANSISTOR	[M] ⚠
Q704	B1ABCF000011	TRANSISTOR	[M] ⚠
Q705	B1ADCF000001	TRANSISTOR	[M]
Q706	B1GBCFJN0004	TRANSISTOR	[M]
Q708	KTA1046YU	TRANSISTOR	[M] ⚠
Q709	B1ABGC000001	TRANSISTOR	[M]
Q710	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q711	B1ABCF000011	TRANSISTOR	[M]
Q712	2SB621ARSTA	TRANSISTOR	[M] ⚠
Q713	B1ABCF000011	TRANSISTOR	[M]
Q714	B1GDCFJJ0002	TRANSISTOR	[M]
Q715	B1GBCFJN0004	TRANSISTOR	[M]
Q716	B1GFGCAA0001	TRANSISTOR	[M]
Q718	B1GFGCAA0001	TRANSISTOR	[M]
Q719	B1GFGCAA0001	TRANSISTOR	[M]
Q805	2SC2412KT96R	TRANSISTOR	[M]
Q1101	B1ABGC000001	TRANSISTOR	[M]
Q1201	B1ABGC000001	TRANSISTOR	[M]
Q1302	B1GDCFJJ0002	TRANSISTOR	[M]
Q1303	B1GBCFGH0001	TRANSISTOR	[M]
Q1304	B1GDCFGH0002	TRANSISTOR	[M]
Q1305	B1GBCFJJ0002	TRANSISTOR	[M]
Q1306	B1ABCF000011	TRANSISTOR	[M]
Q1307	B1ABCF000011	TRANSISTOR	[M]
Q1308	B1GBCFNA0002	TRANSISTOR	[M]
Q1309	B1AAGC000007	TRANSISTOR	[M]
Q1310	B1AAGC000007	TRANSISTOR	[M]
Q1312	B1ABCF000011	TRANSISTOR	[M]
Q1313	B1AAAL000002	TRANSISTOR	[M]
Q1314	B1GDCFGH0002	TRANSISTOR	[M]
Q1315	KTA12710YTA	TRANSISTOR	[M]
Q1316	2SD09650RA	TRANSISTOR	[M]
Q1317	B1ABGC000001	TRANSISTOR	[M]
Q5211	B1BDBF000004	TRANSISTOR	[M]
Q5215	B1BDBF000004	TRANSISTOR	[M]
QR3301	UN5212TX	CHIP TRANSISTOR	[M]
QR5251	UN2121-TX	CHIP TRANSISTOR	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
QR6301	UN5212TX	CHIP TRANSISTOR	[M]
		DIODES	
D2	B0BA4R600003	DIODE	[M]
D201	1SS355TE17	DIODE	[M]
D202	1SS355TE17	DIODE	[M]
D203	B0BC5R000009	DIODE	[M]
D216	B0BC5R000009	DIODE	[M]
D315	1SS355TE17	DIODE	[M]
D317	1SS355TE17	DIODE	[M]
D351	B0ADCJ000020	DIODE	[M]
D371	B0ADCJ000020	DIODE	[M]
D373	1SS355TE17	DIODE	[M]
D381	B0ADCC000002	DIODE	[M]
D383	B0ADCC000002	DIODE	[M]
D385	RL1N4003N02	DIODE	[M]
D386	B0BC5R000009	DIODE	[M]
D401	1SS355TE17	DIODE	[M]
D451	RL1N4003N02	DIODE	[M]
D454	RL1N4003N02	DIODE	[M]
D456	RL1N4003N02	DIODE	[M]
D500	B0AACK000004	DIODE	[M]
D501	RK306LFU1	DIODE	[M]
D502	RK306LFU1	DIODE	[M]
D503	B0AACK000004	DIODE	[M]
D551	B0EAKM000085	DIODE	[M] ⚠
D552	B0EAKM000085	DIODE	[M] ⚠
D553	B0EAKM000085	DIODE	[M] ⚠
D554	B0EAKM000085	DIODE	[M] ⚠
D561	1N5402BM21	DIODE	[M] ⚠
D562	1N5402BM21	DIODE	[M] ⚠
D563	1N5402BM21	DIODE	[M] ⚠
D565	1N5402BM21	DIODE	[M] ⚠
D566	1N5402BM21	DIODE	[M] ⚠
D568	1N5402BM21	DIODE	[M] ⚠
D569	B0EAKM000085	DIODE	[M]
D570	B0EAKM000085	DIODE	[M]
D572	B0EAKM000085	DIODE	[M]
D573	B0AACK000004	DIODE	[M]
D579	B0BA9R000007	DIODE	[M]
D580	B0BA01500036	DIODE	[M]
D581	B0EAKM000085	DIODE	[M] ⚠
D582	B0EAKM000085	DIODE	[M] ⚠
D583	B0EAKM000085	DIODE	[M] ⚠
D584	B0EAKM000085	DIODE	[M] ⚠
D585	B0EAKM000085	DIODE	[M] ⚠
D586	B0EAKM000085	DIODE	[M] ⚠
D587	B0BA02800001	DIODE	[M]
D591	B0EAKM000085	DIODE	[M]
D592	B0EAKM000085	DIODE	[M]
D594	B0EAKM000085	DIODE	[M]
D595	B0BA6R800007	DIODE	[M]
D596	MA2C700A0F	DIODE	[M]
D601	LNJ201LPQJA	DIODE	[M]
D615	SLR325MCT31W	DIODE	[M]
D616	SLR325MCT31W	DIODE	[M]
D617	SLR325MCT31W	DIODE	[M]
D618	SLR325MCT31W	DIODE	[M]
D619	SLR325MCT31W	DIODE	[M]
D620	SELS5923C	DIODE	[M]
D621	SLR325MCT31W	DIODE	[M]
D622	SLR325MCT31W	DIODE	[M]
D623	SLR325MCT31W	DIODE	[M]
D624	SLR325MCT31W	DIODE	[M]
D627	SLR325MCT31W	DIODE	[M]
D628	SLR325MCT31W	DIODE	[M]
D629	SLR325MCT31W	DIODE	[M]
D630	SELS5923C	DIODE	[M]
D631	SLR325MCT31W	DIODE	[M]
D632	SLR325MCT31W	DIODE	[M]
D633	SLR325MCT31W	DIODE	[M]
D634	SLR325MCT31W	DIODE	[M]
D635	SLR325MCT31W	DIODE	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
D637	SLR325MCT31W	DIODE	[M]
D640	MA729TX	DIODE	[M]
D652	1SS380TE-17	DIODE	[M]
D653	1SS380TE-17	DIODE	[M]
D654	1SS355TE17	DIODE	[M]
D656	1SS355TE17	DIODE	[M]
D658	MA8047MTX	DIODE	[M]
D701	RL1N4003N02	DIODE	[M] ⚠
D702	RL1N4003N02	DIODE	[M] ⚠
D703	RL1N4003N02	DIODE	[M] ⚠
D704	RL1N4003N02	DIODE	[M] ⚠
D705	B0ADCC000002	DIODE	[M]
D706	1SS355TE17	DIODE	[M]
D707	1SS355TE17	DIODE	[M]
D708	1SS355TE17	DIODE	[M]
D709	1SS355TE17	DIODE	[M]
D711	SFPB-72V	DIODE	[M]
D712	B0ADCC000002	DIODE	[M]
D713	1SS355TE17	DIODE	[M]
D714	B0ADCC000002	DIODE	[M]
D715	1SS355TE17	DIODE	[M]
D716	B0ADCC000002	DIODE	[M]
D718	B0BC7R500001	DIODE	[M]
D720	RL1N4003N02	DIODE	[M]
D727	B0BC9R000008	DIODE	[M]
D728	B0BC5R000009	DIODE	[M]
D729	1SS355TE17	DIODE	[M]
D730	1SS355TE17	DIODE	[M]
D971	MA2C16500E	DIODE	[M]
D1301	1SS355TE17	DIODE	[M]
D2001	MA2J11100L	DIODE	[M]
D5251	MA2J72800L	DIODE	[M]
D6201	MA2J72800L	DIODE	[M]
D6301	MA2SD2400L	DIODE	[M]
LB2001	J0JHC0000045	CHIP CAPACITOR	[M]
LB2011	VLP0323A601R	CHIP INDUCTOR	[M]
LB2012	VLP0323A601R	CHIP INDUCTOR	[M]
LB2013	VLP0323A601R	CHIP INDUCTOR	[M]
LB2014	VLP0323A601R	CHIP INDUCTOR	[M]
LB2015	VLP0323A601R	CHIP INDUCTOR	[M]
LB2016	VLP0323A601R	CHIP INDUCTOR	[M]
LB2017	VLP0323A601R	CHIP INDUCTOR	[M]
LB2018	VLP0323A601R	CHIP INDUCTOR	[M]
LB2019	VLP0323A601R	CHIP INDUCTOR	[M]
LB2020	VLP0323A601R	CHIP INDUCTOR	[M]
LB2021	VLP0323A601R	CHIP INDUCTOR	[M]
LB2022	VLP0323A601R	CHIP INDUCTOR	[M]
LB2023	VLP0323A601R	CHIP INDUCTOR	[M]
LB2024	VLP0323A601R	CHIP INDUCTOR	[M]
LB2025	VLP0323A601R	CHIP INDUCTOR	[M]
LB2026	VLP0323A601R	CHIP INDUCTOR	[M]
LB2027	VLP0323A601R	CHIP INDUCTOR	[M]
LB2028	VLP0323A601R	CHIP INDUCTOR	[M]
LB2029	VLP0323A601R	CHIP INDUCTOR	[M]
LB2030	VLP0323A601R	CHIP INDUCTOR	[M]
LB2031	VLP0323A601R	CHIP INDUCTOR	[M]
LB2032	VLP0323A601R	CHIP INDUCTOR	[M]
LB2033	VLP0323A601R	CHIP INDUCTOR	[M]
LB2034	VLP0323A601R	CHIP INDUCTOR	[M]
LB2035	VLP0323A601R	CHIP INDUCTOR	[M]
LB2036	VLP0323A601R	CHIP INDUCTOR	[M]
LB2037	VLP0323A601R	CHIP INDUCTOR	[M]
LB2038	VLP0323A601R	CHIP INDUCTOR	[M]
LB2039	VLP0323A601R	CHIP INDUCTOR	[M]
LB2040	VLP0323A601R	CHIP INDUCTOR	[M]
LB2041	VLP0323A601R	CHIP INDUCTOR	[M]
LB2042	J0JHC0000045	CHIP CAPACITOR	[M]
LB2043	J0JHC0000045	CHIP CAPACITOR	[M]
LB3001	J0JHC0000045	CHIP CAPACITOR	[M]
LB3002	J0JHC0000045	CHIP CAPACITOR	[M]
LB3011	VLP0157-T	CHIP INDUCTOR	[M]
LB3202	D0GB101JA002	100 1/16W	[M]
LB3203	D0GB101JA002	100 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
LB3204	D0GB101JA002	100 1/16W	[M]
LB3206	VLP0155-T	CHIP BEAD	[M]
LB3207	VLP0155-T	CHIP BEAD	[M]
LB3303	VLP0155-T	CHIP BEAD	[M]
LB3304	VLP0155-T	CHIP BEAD	[M]
LB3305	VLP0155-T	CHIP BEAD	[M]
LB4200	VLP0323A601R	CHIP INDUCTOR	[M]
LB4201	VLP0323A601R	CHIP INDUCTOR	[M]
LB4207	VLP0323A601R	CHIP INDUCTOR	[M]
LB4208	VLP0323A601R	CHIP INDUCTOR	[M]
LB4209	VLP0323A601R	CHIP INDUCTOR	[M]
LB4210	VLP0323A601R	CHIP INDUCTOR	[M]
LB4211	VLP0323A601R	CHIP INDUCTOR	[M]
LB4212	VLP0323A601R	CHIP INDUCTOR	[M]
LB4213	VLP0323A601R	CHIP INDUCTOR	[M]
LB4214	VLP0323A601R	CHIP INDUCTOR	[M]
LB4215	VLP0323A601R	CHIP INDUCTOR	[M]
LB4216	VLP0323A601R	CHIP INDUCTOR	[M]
LB4217	VLP0323A601R	CHIP INDUCTOR	[M]
LB5201	JALBK2HS470T	CHIP INDUCTOR	[M]
LB5202	VLP0323A601R	CHIP INDUCTOR	[M]
LB5203	VLP0155-T	CHIP BEAD	[M]
LB5204	VLP0155-T	CHIP BEAD	[M]
LB5205	VLP0323A601R	CHIP INDUCTOR	[M]
LB5206	VLP0323A601R	CHIP INDUCTOR	[M]
LB6201	VLP0323A601R	CHIP INDUCTOR	[M]
LB6202	VLP0155-T	CHIP BEAD	[M]
LB6221	VLP0323A601R	CHIP INDUCTOR	[M]
LB6501	VLP0323A601R	CHIP INDUCTOR	[M]
LB6502	VLP0323A601R	CHIP INDUCTOR	[M]
LB6512	VLP0155-T	CHIP BEAD	[M]
LB6513	VLP0155-T	CHIP BEAD	[M]
LB6514	VLP0155-T	CHIP BEAD	[M]
LB6515	VLP0157-T	CHIP INDUCTOR	[M]
		VARIABLE RESISTORS	
VR601	EVEKE2F3024M	VOLUME JOG	[M]
		SWITCHES	
S601	EVQ21405R	SW DPL	[M]
S602	EVQ21405R	SW SSS	[M]
S603	EVQ21405R	SW 3D AI	[M]
S604	EVQ21405R	SW PRESET EQ	[M]
S605	EVQ21405R	SW AMAZING	[M]
S606	EVQ21405R	SW SUPER WOOFER	[M]
S607	EVQ21405R	SW TAPE EJECT	[M]
S610	EVQ21405R	SW FM MODE/BP/REV MD	[M]
S611	EVQ21405R	SW REC/STOP	[M]
S612	EVQ21405R	SW DISPLAY/DEMO/DIMM	[M]
S613	EVQ21405R	SW CLOCK/TIMER	[M]
S614	EVQ21405R	SW PLAY/REC	[M]
S615	EVQ21405R	SW SELECTOR	[M]
S616	EVQ21405R	SW TUNE MODE	[M]
S617	EVQ21405R	SW DVD/CD	[M]
S618	EVQ21405R	SW TUNER/BAND	[M]
S619	EVQ21405R	SW TAPE	[M]
S620	EVQ21405R	SW VOLUME -	[M]
S621	EVQ21405R	SW VOLUME +	[M]
S622	EVQ21405R	SW MEMORY	[M]
S623	EVQ21405R	SW POWER	[M]
S625	EVQ21405R	SW MANAGER	[M]
S626	EVQ21405R	SW DISC 1	[M]
S627	EVQ21405R	SW DISC 2	[M]
S628	EVQ21405R	SW DISC 3	[M]
S629	EVQ21405R	SW DISC 4	[M]
S630	EVQ21405R	SW DISC 5	[M]
S631	EVQ21405R	SW CINEMA	[M]
S632	EVQ21405R	SW OPEN/CLOSE	[M]
S971	RSH1A018-3U	SW MODE	[M]
S972	RSH1A019-2U	SW HALF	[M]
S973	RSH1A019-2U	SW CR02	[M]
S974	RSH1A019-2U	SW RECINH_R	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
S975	RSH1A019-2U	SW RECINH_F	[M]
		SWITCHES	
SW1	RSH1A032-U	SW PUSH	[M]
SW2	RSH1A032-U	SW PUSH	[M]
SW3	RSH1A005-1U	SWITCH	[M]
SW4	RSH1A91ZA-A	SW CD	[M]
SW5	K0L1BB000005	SW LOCK	[M]
SW2501	RSH1A048-A	SW LEAF	[M]
		CONNECTORS	
CN1	K1MN14A00049	14P FFC CONNECTOR	[M]
CN1A	RJS1A9414-1	14P CONNECTOR	[M]
CN100	RJS1A5209	9P MOLEX	[M]
CN301	RJS2A7726	FFC CONNECTOR	[M]
CN302	RJS2A7717	FFC CONNECTOR	[M]
CN351	K1KA02A00008	CONNECTOR	[M]
CN501	K1KA06A00008	SOCKET	[M]
CN501	RJS2A7715	FFC CONNECTOR	[M]
CN502	K1KA12A00066	CONNECTOR	[M]
CN503	K1KB10B00041	10P P2 MQ CONNECTOR	[M]
CN504	K1KB10B00041	10P P2 MQ CONNECTOR	[M]
CN505	RJU057W004	4P SOCKET	[M]
CN601	RJS2A8430	CONNECTOR	[M]
CN602A	RJT066H10G	CONNECTOR	[M]
CN602B	RJU066H10M	10 B-B	[M]
CN603A	RJS2A8030	P1 FFC CONNECTOR ST	[M]
CN700	K1KA02B00045	CONNECTOR	[M]
CN703	RJT029W03VT	CONNECTOR	[M]
CN1303	RJS9T7ZA	9P DECK TO MAIN	[M]
CP201	RJT100W11	11P CONNECTOR	[M]
CP503	K1KA10A00257	10P P2 MQ CONNECTOR	[M]
CP504	K1KA10A00257	10P P2 MQ CONNECTOR	[M]
CP505	RJT057W004-1	4P CONNECTOR	[M]
CP521	K1KA10A00114	10P CONNECTOR	[M]
CP1301	RJS1A6805-J	5P CONNECTOR SOCKET	[M]
CP1902	RJT071K09A	9P B/B CONNECTOR	[M]
CS971	RJU071H09M1	CONNECTOR	[M]
PS6201	K1MN10A00030	CONNECTOR	[M]
		COILS & TRANSFORMERS	
L303	G0C470JA0030	RF CHOKE COIL	[M]
L451	G0C100JA0030	INDUCTOR	[M]
L452	G0C100JA0030	INDUCTOR	[M]
L453	G0C100JA0030	INDUCTOR	[M]
L500	RLQZ371	LINE FILTER	[M] ⚠
L601	RLBN102V-Y	CHIP INDUCTOR	[M]
L602	RLBN102V-Y	CHIP INDUCTOR	[M]
L604	G0C101JA0030	INDUCTOR	[M]
L605	RLBV252AV-Y	LINE COIL	[M]
L606	G0C101JA0030	INDUCTOR	[M]
L607	RLBV252AV-Y	LINE COIL	[M]
L701	RLQT200T-J	LINE FILTER	[M]
L703	RLQT200T-J	LINE FILTER	[M]
L704	RLQT200T-J	LINE FILTER	[M]
L705	RLQT200T-J	LINE FILTER	[M]
L712	G0ZZ00001930	COIL	[M]
L801	RLBN102V-Y	CHIP INDUCTOR	[M]
L803	RLBN102V-Y	CHIP INDUCTOR	[M]
L805	RLQT200T-J	LINE FILTER	[M]
L807	G0C100JA0030	INDUCTOR	[M]
L808	G0C100JA0030	INDUCTOR	[M]
L809	RLBN102V-Y	CHIP INDUCTOR	[M]
L814	RLQT200T-J	LINE FILTER	[M]
L1301	7L1A62N	BIAS OSC COIL	[M]
L2001	G1C100K00020	CHIP INDUCTOR	[M]
L3091	G1C100K00020	CHIP INDUCTOR	[M]
L3092	G1C100K00020	CHIP INDUCTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L3301	G1C220KA0038	CHIP CAPACITOR	[M]
L4211	G1C220KA0038	CHIP CAPACITOR	[M]
L5201	ELJEA100KF	CHIP INDUCTOR	[M]
L5202	ELJEA100KF	CHIP INDUCTOR	[M]
L5251	ELJEA100KF	CHIP INDUCTOR	[M]
L6501	G1C220KA0038	CHIP CAPACITOR	[M]
L6502	G1C220KA0038	CHIP CAPACITOR	[M]
T501	ETP76VQT21HA	POWER TRANSFORMER	[M] ⚠
T502	RTP1H3E002	BACK UP TRANSFORMER	[M] ⚠
		COMPONENT COMBINATION	
Z501	ERZV10V511CS	ZENER	[M] ⚠
Z601	B3RAB0000016	REMOTE CONTROL SENSO	[M]
Z971	RGSD12A1445T	RADA RESISTOR	[M]
RAL201	RAN0004MM-2	TUNER PACK	[M]
		RELAY	
RLY502	RSY0040M-0	PRIMARY RELAY	[M] ⚠
		OSCILLATORS	
X451	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X452	RSXY8M00D01T	CERAMIC RESONATOR	[M]
X601	RSXD32K7S02	CRYSTAL OSCILLATOR	[M]
X602	H2B400400013	OSCILLATOR	[M]
X801	RSXZ36M8M01T	RESONATOR	[M]
X6501	VSX1044	CRYSTAL OSCILLATOR	[M]
		DISPLAY TUBE	
FL601	A2BD00000050	FL DISPLAY	[M]
FL4201	F1H0J1050018	1 6.3V	[M]
FL6251	F1H0J1050018	1 6.3V	[M]
FL6253	F1H0J1050018	1 6.3V	[M]
FL6254	F1H0J1050018	1 6.3V	[M]
FL6255	F1J1E1040022	CHIP FILTER	[M]
		FUSES	
F1	XBA1C40NBAL	FUSE	[M] ⚠
		FUSE HOLDERS	
FC501	EYF52BC	FUSE HOLDER	[M]
FC502	EYF52BC	FUSE HOLDER	[M]
		FUSE PROTECTOR	
FP501	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP701	K5G402AA0002	FUSE PROTECTOR	[M] ⚠
FP2001	K1MN50B00010	CONNECTOR	[M]
FP3202	K1MN17B00057	CONNECTOR	[M]
FP3203	RJS2A7515T	FMN CNNECTOR	[M]
FP4202	RJS2A7526T	FMN CNNECTOR	[M]
FP5201	K1MN30B00098	CONNECTOR	[M]
FP5202	K1MN50B00010	CONNECTOR	[M]
		HOLDERS	
H502	RJS1A5512	12P WIRE HOLDER	[M]
H521	RJS1A5510	WIRE HOLDER	[M]
H601	RMR0318	9P CABLE HOLDER	[M]
H602	RMR0315	6P CABLE HOLDER	[M]
H603A	RMR0318	9P CABLE HOLDER	[M]
H603B	RMR0318	9P CABLE HOLDER	[M]
H605A	RMR0315	6P CABLE HOLDER	[M]
H605B	RMR0315	6P CABLE HOLDER	[M]
H1304	RMR0318	9P CABLE HOLDER	[M]
HOL1	RMN0635	FL HOLDER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
		JACKS	
JK201	RJH2213N	JK 2P RCA PIN	[M]
JK500	K2AB2B000002	JK AC INLET	[M] ⚠
JK501	RJH5603-10	JK SPEAKER TERMINAL	[M]
JK503	RJH5603-9	JK SPEAKER	[M]
JK603	RJJ37TK07-X	JK HP/MIC	[M]
JK701	K1U208B00002	JK VIDEO	[M]
		EARTH TERMINAL	
E500	SNE1004-2	EARTH TERMINAL	[M]
E501	SNE1004-2	EARTH TERMINAL	[M]
		WIRES	
W1	REEX0059	WIRE (BLUE)	[M]
W1	REZ1023-1	4P WIRE	[M]
W2	REEX0060	WIRE (RED)	[M]
W2	REZ1024	3P WIRE	[M]
W500	REX1076	INLET TO PT FLAT WIR	[M]
W502	REX1071-1	TRANS TO POWER FLAT	[M]
W503	REX1075	PT TO MAIN FLAT WIRE	[M]
W521	REX1073	POWER TO SPEAKER FLA	[M]
W601	RWJ1109100XX	PANEL TO DECK FLAT W	[M]
W602	REX1072	TRANS TO PANEL FLAT	[M]
W603	RWJ1109230XX	WIRE	[M]
W605	RWJ1106100XX	BABY P.T. TO MAIN FL	[M]
W700	REX1074	2P WIRE	[M]
W1304	RWJ1109085XX	9P FLAT WIRE	[M]
W1903	RWJ0102050CK	MAIN-MECHA MOTOR WIR	[M]
		RESISTORS	
R1	ERDS2TJ102T	1K 1/4W	[M]
R2	ERJ3GEY0R00V	0 1/16W	[M]
R200	ERJ3GEYJ472V	4.7K 1/16W	[M]
R201	ERJ3GEYJ123V	12K 1/16W	[M]
R202	ERJ3GEYJ123V	12K 1/16W	[M]
R203	D0GB122JA019	1.2K 1/16W	[M]
R204	D0GB122JA019	1.2K 1/16W	[M]
R205	ERJ3GEYJ472V	4.7K 1/16W	[M]
R206	ERJ3GEYJ102V	1K 1/16W	[M]
R207	D0GB183JA002	18K 1/16W	[M]
R208	ERJ3GEYJ223V	22K 1/16W	[M]
R211	ERJ3GEYJ102V	1K 1/16W	[M]
R212	ERJ3GEYJ102V	1K 1/16W	[M]
R213	ERJ3GEYJ682V	6.8K 1/16W	[M]
R214	ERJ3GEYJ682V	6.8K 1/16W	[M]
R215	ERJ3GEYJ682V	6.8K 1/16W	[M]
R216	ERJ3GEYJ682V	6.8K 1/16W	[M]
R217	D0GB183JA002	18K 1/16W	[M]
R218	D0GB183JA002	18K 1/16W	[M]
R219	D0GB272JA002	2.7K 1/16W	[M]
R220	D0GB272JA002	2.7K 1/16W	[M]
R221	ERJ3GEYJ123V	12K 1/16W	[M]
R222	ERJ3GEYJ103V	10K 1/16W	[M]
R223	D0GB272JA002	2.7K 1/16W	[M]
R224	ERJ3GEYJ473V	47K 1/16W	[M]
R225	D0GB392JA002	3.9K 1/16W	[M]
R226	D0GB392JA002	3.9K 1/16W	[M]
R227	D0GB392JA002	3.9K 1/16W	[M]
R228	D0GB392JA002	3.9K 1/16W	[M]
R229	ERJ3GEYJ473V	47K 1/16W	[M]
R230	ERJ3GEYJ473V	47K 1/16W	[M]
R231	ERJ3GEYJ472V	4.7K 1/16W	[M]
R232	ERJ3GEYJ472V	4.7K 1/16W	[M]
R233	ERJ3GEYJ472V	4.7K 1/16W	[M]
R234	ERJ3GEYJ472V	4.7K 1/16W	[M]
R235	ERJ3GEYJ221V	220 1/16W	[M]
R236	ERJ3GEYJ221V	220 1/16W	[M]
R237	ERJ3GEYJ104V	100K 1/16W	[M]
R238	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R239	ERJ3GEYJ473V	47K 1/16W	[M]
R240	ERJ3GEYJ473V	47K 1/16W	[M]
R241	D0GB563JA002	56K 1/16W	[M]
R242	D0GB563JA002	56K 1/16W	[M]
R243	ERJ3GEYJ822V	8.2K 1/16W	[M]
R244	ERJ3GEYJ822V	8.2K 1/16W	[M]
R245	D0GB333JA002	33K 1/16W	[M]
R246	D0GB333JA002	33K 1/16W	[M]
R247	D0GB272JA002	2.7K 1/16W	[M]
R248	D0GB272JA002	2.7K 1/16W	[M]
R249	ERJ3GEYJ471V	470 1/16W	[M]
R250	ERJ3GEYJ471V	470 1/16W	[M]
R251	D0GB1R0JA002	1 1/16W	[M]
R252	D0GB1R0JA002	1 1/16W	[M]
R253	ERJ3GEYJ222V	2.2K 1/16W	[M]
R254	ERJ3GEYJ222V	2.2K 1/16W	[M]
R255	D0GB154JA002	150K 1/16W	[M]
R256	ERJ3GEYJ102V	1K 1/16W	[M]
R259	ERJ3GEYJ103V	10K 1/16W	[M]
R260	ERJ3GEYJ103V	10K 1/16W	[M]
R261	D0GB334JA002	330K 1/16W	[M]
R262	D0GB334JA002	330K 1/16W	[M]
R263	ERJ3GEYJ223V	22K 1/16W	[M]
R264	ERJ3GEYJ223V	22K 1/16W	[M]
R265	ERJ3GEYJ102V	1K 1/16W	[M]
R266	ERJ3GEYJ102V	1K 1/16W	[M]
R267	D0GB332JA002	3.3K 1/16W	[M]
R268	D0GB332JA002	3.3K 1/16W	[M]
R269	D0GB683JA002	68K 1/16W	[M]
R270	D0GB683JA002	68K 1/16W	[M]
R271	D0GB390JA019	39 1/16W	[M]
R272	D0GB390JA019	39 1/16W	[M]
R273	D0GB390JA019	39 1/16W	[M]
R274	D0GB390JA019	39 1/16W	[M]
R275	ERJ3GEYJ561V	560 1/16W	[M]
R276	ERJ3GEYJ561V	560 1/16W	[M]
R277	ERJ3GEYJ123V	12K 1/16W	[M]
R278	ERJ3GEYJ473V	47K 1/16W	[M]
R279	ERJ3GEYJ182V	1.8K 1/16W	[M]
R280	ERJ3GEYJ473V	47K 1/16W	[M]
R281	D0GB183JA002	18K 1/16W	[M]
R282	ERJ3GEYJ473V	47K 1/16W	[M]
R283	D0GB393JA002	39K 1/16W	[M]
R284	D0GB393JA002	39K 1/16W	[M]
R285	ERJ3GEYJ153V	15K 1/16W	[M]
R286	ERJ3GEYJ104V	100K 1/16W	[M]
R287	D0GB273JA002	27K 1/16W	[M]
R288	ERJ3GEYJ824V	820K 1/16W	[M]
R289	ERJ3GEYJ472V	4.7K 1/16W	[M]
R290	ERJ3GEYJ472V	4.7K 1/16W	[M]
R292	D0GB183JA002	18K 1/16W	[M]
R293	ERJ3GEYJ223V	22K 1/16W	[M]
R294	ERJ3GEYJ102V	1K 1/16W	[M]
R296	D0GB274JA002	270K 1/16W	[M]
R299	D0GB183JA002	18K 1/16W	[M]
R301	D0GB273JA002	27K 1/16W	[M]
R302	D0GB273JA002	27K 1/16W	[M]
R303	D0GB332JA002	3.3K 1/16W	[M]
R304	D0GB332JA002	3.3K 1/16W	[M]
R305	D0GB563JA002	56K 1/16W	[M]
R306	D0GB563JA002	56K 1/16W	[M]
R307	ERJ3GEYJ102V	1K 1/16W	[M]
R308	ERJ3GEYJ102V	1K 1/16W	[M]
R309	ERJ3GEYJ123V	12K 1/16W	[M]
R310	D0GB332JA002	3.3K 1/16W	[M]
R311	ERJ3GEYJ184V	180K 1/16W	[M]
R312	D0GB273JA002	27K 1/16W	[M]
R313	D0GB272JA002	2.7K 1/16W	[M]
R314	D0GB332JA002	3.3K 1/16W	[M]
R315	D0GB563JA002	56K 1/16W	[M]
R316	D0GB563JA002	56K 1/16W	[M]
R317	ERJ3GEYJ102V	1K 1/16W	[M]
R318	ERJ3GEYJ102V	1K 1/16W	[M]
R336	ERJ3GEYJ153V	15K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R351	ERJ3GEYJ103V	10K 1/16W	[M]
R352	D0GB563JA002	56K 1/16W	[M]
R353	ERJ3GEYJ472V	4.7K 1/16W	[M]
R354	ERJ3GEYJ824V	820K 1/16W	[M]
R355	D0GB562JA002	5.6K 1/16W	[M]
R356	D0GB101JA002	100 1/16W	[M]
R357	ERJ3GEYJ103V	10K 1/16W	[M]
R358	D0GB563JA002	56K 1/16W	[M]
R359	ERDS1FVJ180T	18 1/2W	[M]
R361	D0GB563JA002	56K 1/16W	[M]
R362	ERJ3GEYJ103V	10K 1/16W	[M]
R363	ERJ3GEYJ104V	100K 1/16W	[M]
R366	ERJ3GEYJ224V	220K 1/16W	[M]
R368	D0GB333JA002	33K 1/16W	[M]
R374	D0GB332JA002	3.3K 1/16W	[M]
R375	D0GB393JA002	39K 1/16W	[M]
R376	ERJ3GEYJ472V	4.7K 1/16W	[M]
R377	ERJ3GEYJ103V	10K 1/16W	[M]
R378	ERJ3GEYJ102V	1K 1/16W	[M]
R379	ERJ3GEYJ224V	220K 1/16W	[M]
R380	D0GB683JA002	68K 1/16W	[M]
R381	D0GB122JA019	1.2K 1/16W	[M]
R382	D0GB122JA019	1.2K 1/16W	[M]
R383	ERJ3GEYJ472V	4.7K 1/16W	[M]
R384	D0GB1R0JA002	1 1/16W	[M]
R385	ERJ3GEYJ472V	4.7K 1/16W	[M]
R386	ERJ3GEYJ472V	4.7K 1/16W	[M]
R387	D0GB1R0JA002	1 1/16W	[M]
R388	ERJ3GEYJ823V	82K 1/16W	[M]
R390	ERJ3GEYJ473V	47K 1/16W	[M]
R401	ERJ3GEYJ104V	100K 1/16W	[M]
R402	D0GB332JA002	3.3K 1/16W	[M]
R403	ERJ3GEYJ473V	47K 1/16W	[M]
R404	ERJ3GEYJ102V	1K 1/16W	[M]
R405	D0GB183JA002	18K 1/16W	[M]
R406	ERJ3GEYJ223V	22K 1/16W	[M]
R407	ERJ3GEYJ103V	10K 1/16W	[M]
R408	ERJ3GEYJ823V	82K 1/16W	[M]
R409	ERJ3GEYJ823V	82K 1/16W	[M]
R410	ERJ3GEYJ822V	8.2K 1/16W	[M]
R411	ERJ3GEYJ153V	15K 1/16W	[M]
R414	ERJ3GEYJ103V	10K 1/16W	[M]
R415	D0GB333JA002	33K 1/16W	[M]
R416	ERJ3GEYJ103V	10K 1/16W	[M]
R417	D0GB332JA002	3.3K 1/16W	[M]
R418	D0GB332JA002	3.3K 1/16W	[M]
R419	ERJ3GEYJ472V	4.7K 1/16W	[M]
R420	ERJ3GEYJ104V	100K 1/16W	[M]
R427	ERJ3GEYJ102V	1K 1/16W	[M]
R431	ERJ3GEYJ102V	1K 1/16W	[M]
R432	D0GB152JA002	1.5K 1/16W	[M]
R433	ERJ3GEYJ331V	330 1/16W	[M]
R434	ERJ3GEYJ331V	330 1/16W	[M]
R435	ERJ3GEYJ331V	330 1/16W	[M]
R436	ERJ3GEYJ472V	4.7K 1/16W	[M]
R437	ERJ3GEYJ472V	4.7K 1/16W	[M]
R438	ERJ3GEYJ472V	4.7K 1/16W	[M]
R439	ERJ3GEYJ472V	4.7K 1/16W	[M]
R441	ERJ3GEYJ103V	10K 1/16W	[M]
R447	ERJ3GEYJ153V	15K 1/16W	[M]
R448	ERJ3GEYJ153V	15K 1/16W	[M]
R451	ERJ3GEYJ102V	1K 1/16W	[M]
R452	ERJ3GEYJ103V	10K 1/16W	[M]
R454	ERJ3GEYJ103V	10K 1/16W	[M]
R455	ERJ3GEYJ221V	220 1/16W	[M]
R456	ERJ3GEYJ221V	220 1/16W	[M]
R457	ERJ3GEYJ221V	220 1/16W	[M]
R458	ERJ3GEYJ221V	220 1/16W	[M]
R459	ERJ3GEYJ221V	220 1/16W	[M]
R460	ERJ3GEYJ681V	680 1/16W	[M]
R461	ERJ3GEYJ472V	4.7K 1/16W	[M]
R462	ERJ3GEYJ473V	47K 1/16W	[M]
R463	ERJ3GEYJ472V	4.7K 1/16W	[M]
R464	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R465	ERJ3GEYJ472V	4.7K 1/16W	[M]
R471	ERJ3GEYJ221V	220 1/16W	[M]
R472	ERJ3GEYJ221V	220 1/16W	[M]
R473	ERJ3GEYJ221V	220 1/16W	[M]
R474	ERJ3GEYJ221V	220 1/16W	[M]
R475	ERJ3GEYJ103V	10K 1/16W	[M]
R476	ERJ3GEYJ102V	1K 1/16W	[M]
R477	ERJ3GEYJ221V	220 1/16W	[M]
R478	ERJ3GEYJ681V	680 1/16W	[M]
R479	ERJ3GEYJ472V	4.7K 1/16W	[M]
R480	ERJ3GEYJ104V	100K 1/16W	[M]
R481	ERJ3GEYJ472V	4.7K 1/16W	[M]
R483	ERJ3GEYJ472V	4.7K 1/16W	[M]
R485	ERJ3GEYJ103V	10K 1/16W	[M]
R486	ERJ3GEYJ472V	4.7K 1/16W	[M]
R487	ERJ3GEYJ104V	100K 1/16W	[M]
R488	ERJ3GEYJ104V	100K 1/16W	[M]
R489	ERJ3GEYJ221V	220 1/16W	[M]
R490	ERJ3GEYJ221V	220 1/16W	[M]
R491	ERJ3GEYJ221V	220 1/16W	[M]
R492	ERJ3GEYJ221V	220 1/16W	[M]
R493	ERJ3GEYJ221V	220 1/16W	[M]
R494	ERJ3GEYJ102V	1K 1/16W	[M]
R495	ERJ3GEYJ472V	4.7K 1/16W	[M]
R496	ERJ3GEYJ221V	220 1/16W	[M]
R497	ERJ3GEYJ221V	220 1/16W	[M]
R498	ERJ3GEYJ102V	1K 1/16W	[M]
R499	ERJ3GEYJ102V	1K 1/16W	[M]
R500	ERC12UGK335D	3.3M 1/2W	[M]
R501	ERDS2TJ392T	3.9K 1/4W	[M]
R502	ERDS2TJ392T	3.9K 1/4W	[M]
R503	ERDS2TJ153T	15K 1/4W	[M]
R504	ERDS2TJ153T	15K 1/4W	[M]
R505	ERDS2TJ153T	15K 1/4W	[M]
R506	ERDS2TJ153T	15K 1/4W	[M]
R507	ERDS2TJ392T	3.9K 1/4W	[M]
R508	ERDS2TJ392T	3.9K 1/4W	[M]
R509	ERDS2TJ332T	3.3K 1/4W	[M]
R510	ERDS2TJ392T	3.9K 1/4W	[M]
R511	ERDS2TJ153T	15K 1/4W	[M]
R512	ERDS2TJ224T	220K 1/4W	[M]
R513	ERDS2TJ563T	56K 1/4W	[M]
R514	ERDS2TJ563T	56K 1/4W	[M]
R515	ERDS2TJ563T	56K 1/4W	[M]
R516	ERDS2TJ563T	56K 1/4W	[M]
R517	ERDS2TJ563T	56K 1/4W	[M]
R518	ERDS2TJ563T	56K 1/4W	[M]
R519	ERDS2TJ824T	820K 1/4W	[M]
R520	ERDS2TJ103T	10K 1/4W	[M]
R521	ERDS2TJ103T	10K 1/4W	[M]
R522	ERDS2TJ273T	27K 1/4W	[M]
R523	ERDS2TJ124T	120K 1/4W	[M]
R524	ERDS2TJ124T	120K 1/4W	[M]
R525	ERDS2TJ154T	150K 1/4W	[M]
R526	ERDS2TJ124T	120K 1/4W	[M]
R527	ERDS2TJ124T	120K 1/4W	[M]
R528	ERDS2TJ154T	150K 1/4W	[M]
R529	ERDS2TJ223T	22K 1/4W	[M]
R537	ERDS1FVJ100T	10 1/2W	[M]
R538	ERDS1FVJ100T	10 1/2W	[M]
R539	ERDS1FVJ100T	10 1/2W	[M]
R540	ERDS1FVJ100T	10 1/2W	[M]
R541	ERDS1FVJ100T	10 1/2W	[M]
R542	ERDS1FVJ100T	10 1/2W	[M]
R545	ERDS2TJ153T	15K 1/4W	[M]
R567	ERDS2TJ2R2T	2.2 1/4W	[M]
R568	ERDS2TJ2R2T	2.2 1/4W	[M]
R570	ERD2FCVG390T	39 1/4W	[M]
R571	ERDS2TJ473T	47K 1/4W	[M]
R572	ERDS2TJ153T	15K 1/4W	[M]
R573	ERDS2TJ392T	3.9K 1/4W	[M]
R574	ERDS2TJ474T	470K 1/4W	[M]
R575	ERDS2TJ154T	150K 1/4W	[M]
R576	ERDS2TJ562T	5.6K 1/4W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R578	ERDS2TJ152T	1.5K 1/4W	[M]
R579	ERDS2TJ332T	3.3K 1/4W	[M]
R580	ERDS2TJ824T	820K 1/4W	[M]
R581	ERDS1FVJ472T	4.7K 1/2W	[M]
R585	ERDS2TJ122T	1.2K 1/4W	[M]
R586	ERDS2TJ152T	1.5K 1/4W	[M]
R587	ERDS2TJ103T	10K 1/4W	[M]
R588	ERDS2TJ472T	4.7K 1/4W	[M]
R589	ERDS2TJ151T	150 1/4W	[M]
R592	ERDS2TJ180T	18 1/4W	[M]
R593	ERDS2TJ103T	10K 1/4W	[M]
R594	ERDS2TJ103T	10K 1/4W	[M]
R595	ERDS2TJ332T	3.3K 1/4W	[M]
R596	ERDS2TJ151T	150 1/4W	[M]
R597	ERDS2TJ472T	4.7K 1/4W	[M]
R598	ERDS2TJ2R2T	2.2 1/4W	[M]
R599	ERDS2TJ180T	18 1/4W	[M]
R601	ERJ3GEYJ102V	1K 1/16W	[M]
R607	ERJ3GEYJ102V	1K 1/16W	[M]
R608	ERJ3GEYJ681V	680 1/16W	[M]
R609	ERJ3GEYJ473V	47K 1/16W	[M]
R610	ERJ3GEYJ102V	1K 1/16W	[M]
R611	ERJ3GEYJ102V	1K 1/16W	[M]
R612	D0GB101JA002	100 1/16W	[M]
R613	ERJ3GEYJ102V	1K 1/16W	[M]
R614	ERJ3GEYJ102V	1K 1/16W	[M]
R615	ERJ3GEYJ102V	1K 1/16W	[M]
R616	D0GB122JA019	1.2K 1/16W	[M]
R617	ERJ3GEYJ182V	1.8K 1/16W	[M]
R618	ERJ3GEYJ472V	4.7K 1/16W	[M]
R619	ERJ3GEYJ682V	6.8K 1/16W	[M]
R623	ERJ3GEYJ102V	1K 1/16W	[M]
R624	ERJ3GEYJ102V	1K 1/16W	[M]
R625	D0GB122JA019	1.2K 1/16W	[M]
R626	ERJ3GEYJ222V	2.2K 1/16W	[M]
R627	D0GB272JA002	2.7K 1/16W	[M]
R629	ERJ3GEYJ473V	47K 1/16W	[M]
R630	ERJ3GEYJ473V	47K 1/16W	[M]
R631	D0GB121JA002	120 1/16W	[M]
R632	D0GB101JA002	100 1/16W	[M]
R636	D0GB152JA002	1.5K 1/16W	[M]
R637	ERJ3GEYJ223V	22K 1/16W	[M]
R638	D0GB101JA002	100 1/16W	[M]
R639	D0GB101JA002	100 1/16W	[M]
R640	D0GB101JA002	100 1/16W	[M]
R641	D0GB101JA002	100 1/16W	[M]
R642	D0GB101JA002	100 1/16W	[M]
R643	D0GB101JA002	100 1/16W	[M]
R644	D0GB101JA002	100 1/16W	[M]
R645	ERJ3GEYJ103V	10K 1/16W	[M]
R646	ERJ3GEYJ103V	10K 1/16W	[M]
R647	ERJ3GEYJ103V	10K 1/16W	[M]
R649	ERJ3GEYJ473V	47K 1/16W	[M]
R650	ERJ3GEYJ223V	22K 1/16W	[M]
R651	ERJ3GEYJ102V	1K 1/16W	[M]
R652	ERJ3GEYJ103V	10K 1/16W	[M]
R653	D0GB106JA008	10M 1/16W	[M]
R654	D0GB334JA002	330K 1/16W	[M]
R655	ERJ3GEYJ331V	330 1/16W	[M]
R656	ERJ3GEYJ223V	22K 1/16W	[M]
R657	ERJ3GEYJ473V	47K 1/16W	[M]
R661	ERJ3GEYJ104V	100K 1/16W	[M]
R662	ERJ3GEYJ104V	100K 1/16W	[M]
R663	ERJ3GEYJ104V	100K 1/16W	[M]
R664	ERJ3GEYJ104V	100K 1/16W	[M]
R671	ERJ3GEYJ104V	100K 1/16W	[M]
R672	ERJ3GEYJ104V	100K 1/16W	[M]
R673	ERJ3GEYJ104V	100K 1/16W	[M]
R674	ERJ3GEYJ104V	100K 1/16W	[M]
R675	ERJ3GEYJ104V	100K 1/16W	[M]
R676	ERJ3GEYJ104V	100K 1/16W	[M]
R677	ERJ3GEYJ104V	100K 1/16W	[M]
R678	ERJ3GEYJ104V	100K 1/16W	[M]
R679	ERJ3GEYJ104V	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R680	ERJ3GEYJ223V	22K 1/16W	[M]
R682	ERJ3GEYJ103V	10K 1/16W	[M]
R683	ERJ3GEYJ103V	10K 1/16W	[M]
R684	ERJ3GEYJ103V	10K 1/16W	[M]
R685	ERJ3GEYJ104V	100K 1/16W	[M]
R686	ERJ3GEYJ104V	100K 1/16W	[M]
R687	ERJ3GEYJ104V	100K 1/16W	[M]
R688	D0GB680JA019	68 1/16W	[M]
R689	D0GB680JA019	68 1/16W	[M]
R690	D0GB474JA002	470K 1/16W	[M]
R691	ERJ3GEYJ472V	4.7K 1/16W	[M]
R694	ERJ3GEYJ104V	100K 1/16W	[M]
R695	ERJ3GEYJ223V	22K 1/16W	[M]
R697	ERJ3GEYJ472V	4.7K 1/16W	[M]
R698	ERJ3GEYJ223V	22K 1/16W	[M]
R699	ERJ3GEYJ102V	1K 1/16W	[M]
R701	ERJ3GEYJ222V	2.2K 1/16W	[M]
R703	ERJ3GEYJ104V	100K 1/16W	[M]
R704	ERJ3GEYJ103V	10K 1/16W	[M]
R707	ERJ3GEYJ223V	22K 1/16W	[M]
R709	D0GB183JA002	18K 1/16W	[M]
R710	ERJ3GEYJ472V	4.7K 1/16W	[M]
R711	ERJ3GEYJ561V	560 1/16W	[M]
R712	ERJ3GEYJ331V	330 1/16W	[M]
R714	ERJ3GEYJ102V	1K 1/16W	[M]
R716	ERJ3GEYJ102V	1K 1/16W	[M]
R717	ERJ3GEYJ153V	15K 1/16W	[M]
R718	ERJ3GEYJ473V	47K 1/16W	[M]
R719	D0GB154JA002	150K 1/16W	[M]
R720	ERJ3GEYJ472V	4.7K 1/16W	[M]
R721	ERJ3GEYJ681V	680 1/16W	[M]
R722	D0GB151JA008	150 1/16W	[M]
R723	ERJ3GEYJ102V	1K 1/16W	[M]
R724	ERJ3GEYJ822V	8.2K 1/16W	[M]
R725	ERJ3GEYJ222V	2.2K 1/16W	[M]
R726	D0GB183JA002	18K 1/16W	[M]
R727	ERJ3GEYJ222V	2.2K 1/16W	[M]
R728	ERJ3GEYJ102V	1K 1/16W	[M]
R729	ERJ3GEYJ103V	10K 1/16W	[M]
R730	ERJ3GEYJ153V	15K 1/16W	[M]
R731	ERJ3GEYJ104V	100K 1/16W	[M]
R732	ERJ3GEYJ153V	15K 1/16W	[M]
R733	ERJ3GEYJ103V	10K 1/16W	[M]
R734	ERJ3GEYJ223V	22K 1/16W	[M]
R735	ERJ3GEYJ223V	22K 1/16W	[M]
R736	ERJ3GEYJ104V	100K 1/16W	[M]
R737	ERJ3GEYJ472V	4.7K 1/16W	[M]
R738	D0GB183JA002	18K 1/16W	[M]
R739	ERJ3GEYJ102V	1K 1/16W	[M]
R740	ERJ3GEYJ153V	15K 1/16W	[M]
R741	ERJ3GEYJ102V	1K 1/16W	[M]
R742	ERJ3GEYJ153V	15K 1/16W	[M]
R743	ERJ3GEYJ473V	47K 1/16W	[M]
R744	ERJ3GEYJ103V	10K 1/16W	[M]
R745	D0GB334JA002	330K 1/16W	[M]
R746	D0GB1R0JA002	1 1/16W	[M]
R747	D0GB1R0JA002	1 1/16W	[M]
R748	ERJ3GEYJ473V	47K 1/16W	[M]
R749	ERJ3GEYJ102V	1K 1/16W	[M]
R750	ERJ3GEYJ473V	47K 1/16W	[M]
R751	ERJ3GEYJ102V	1K 1/16W	[M]
R752	ERJ3GEYJ223V	22K 1/16W	[M]
R753	D0GB563JA002	56K 1/16W	[M]
R754	D0GB563JA002	56K 1/16W	[M]
R755	D0GB1R0JA002	1 1/16W	[M]
R756	D0GB1R0JA002	1 1/16W	[M]
R757	D0GB183JA002	18K 1/16W	[M]
R759	ERJ3GEYJ102V	1K 1/16W	[M]
R760	ERJ3GEYJ102V	1K 1/16W	[M]
R761	ERJ3GEYJ102V	1K 1/16W	[M]
R762	ERJ3GEYJ102V	1K 1/16W	[M]
R763	ERJ3GEYJ473V	47K 1/16W	[M]
R764	ERJ3GEYJ473V	47K 1/16W	[M]
R765	D0GB154JA002	150K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R766	D0GB154JA002	150K 1/16W	[M]
R767	ERJ3GEYJ681V	680 1/16W	[M]
R768	ERJ3GEYJ472V	4.7K 1/16W	[M]
R769	ERJ3GEYJ561V	560 1/16W	[M]
R770	ERJ3GEYJ223V	22K 1/16W	[M]
R771	ERJ6GEYJ1R0V	1 1/10W	[M]
R772	ERJ6GEYJ1R0V	1 1/10W	[M]
R773	ERJ6GEYJ1R0V	1 1/10W	[M]
R774	ERJ6GEYJ1R0V	1 1/10W	[M]
R775	ERJ3GEYJ102V	1K 1/16W	[M]
R776	ERJ3GEYJ223V	22K 1/16W	[M]
R778	ERJ3GEYJ102V	1K 1/16W	[M]
R779	ERJ3GEYJ472V	4.7K 1/16W	[M]
R781	ERJ3GEYJ102V	1K 1/16W	[M]
R782	ERJ3GEYJ104V	100K 1/16W	[M]
R783	ERJ3GEYJ104V	100K 1/16W	[M]
R784	ERJ3GEYJ103V	10K 1/16W	[M]
R785	ERJ3GEYJ103V	10K 1/16W	[M]
R786	D0GB183JA002	18K 1/16W	[M]
R787	D0GB333JA002	33K 1/16W	[M]
R788	ERJ3GEYJ223V	22K 1/16W	[M]
R789	ERJ3GEYJ223V	22K 1/16W	[M]
R790	ERJ3GEYJ104V	100K 1/16W	[M]
R791	ERJ3GEYJ104V	100K 1/16W	[M]
R792	ERJ3GEYJ103V	10K 1/16W	[M]
R793	ERJ3GEYJ103V	10K 1/16W	[M]
R795	ERJ3GEYJ223V	22K 1/16W	[M]
R796	D0GB183JA002	18K 1/16W	[M]
R798	ERJ3GEYJ102V	1K 1/16W	[M]
R799	ERJ3GEYJ472V	4.7K 1/16W	[M]
R801	ERJ3GEYJ102V	1K 1/16W	[M]
R802	ERJ3GEYJ102V	1K 1/16W	[M]
R803	ERJ3GEYJ102V	1K 1/16W	[M]
R804	ERJ3GEYJ102V	1K 1/16W	[M]
R805	ERJ3GEYJ102V	1K 1/16W	[M]
R806	ERJ3GEYJ102V	1K 1/16W	[M]
R807	ERJ3GEYJ102V	1K 1/16W	[M]
R810	ERJ3GEYJ470V	47 1/16W	[M]
R811	D0GB105JA002	1M 1/16W	[M]
R812	ERJ3GEYJ221V	220 1/16W	[M]
R813	D0GB271JA002	270 1/16W	[M]
R814	D0GB122JA019	1.2K 1/16W	[M]
R815	D0GB271JA002	270 1/16W	[M]
R816	D0GB122JA019	1.2K 1/16W	[M]
R817	D0GB271JA002	270 1/16W	[M]
R818	D0GB122JA019	1.2K 1/16W	[M]
R819	D0GB271JA002	270 1/16W	[M]
R820	D0GB122JA019	1.2K 1/16W	[M]
R826	ERJ3GEYJ472V	4.7K 1/16W	[M]
R827	ERJ3GEYJ104V	100K 1/16W	[M]
R828	ERJ3GEYJ331V	330 1/16W	[M]
R829	ERJ3GEYJ331V	330 1/16W	[M]
R830	ERJ3GEYJ331V	330 1/16W	[M]
R850	ERJ3GEYJ102V	1K 1/16W	[M]
R851	ERJ3GEYJ123V	12K 1/16W	[M]
R852	D0GB122JA019	1.2K 1/16W	[M]
R853	ERJ3GEYJ123V	12K 1/16W	[M]
R854	D0GB332JA002	3.3K 1/16W	[M]
R855	D0GB122JA019	1.2K 1/16W	[M]
R856	ERJ3GEYJ391V	390 1/16W	[M]
R857	ERJ3GEYJ222V	2.2K 1/16W	[M]
R858	ERJ3GEYJ222V	2.2K 1/16W	[M]
R859	ERJ3GEYJ472V	4.7K 1/16W	[M]
R860	ERJ3GEYJ682V	6.8K 1/16W	[M]
R862	ERJ3GEYJ223V	22K 1/16W	[M]
R865	ERJ3GEYJ223V	22K 1/16W	[M]
R866	ERJ3GEYJ123V	12K 1/16W	[M]
R867	ERJ3GEYJ103V	10K 1/16W	[M]
R869	ERJ3GEYJ102V	1K 1/16W	[M]
R870	D0GB392JA002	3.9K 1/16W	[M]
R871	ERJ3GEYJ103V	10K 1/16W	[M]
R873	ERJ3GEYJ123V	12K 1/16W	[M]
R874	ERJ3GEYJ102V	1K 1/16W	[M]
R875	D0GB392JA002	3.9K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R876	D0GB1R8JA008	1.8 1/16W	[M]
R877	ERJ3GEYJ102V	1K 1/16W	[M]
R878	ERJ3GEYJ104V	100K 1/16W	[M]
R879	ERJ3GEYJ104V	100K 1/16W	[M]
R880	ERJ3GEYJ104V	100K 1/16W	[M]
R881	ERJ3GEYJ104V	100K 1/16W	[M]
R886	ERJ3GEYJ104V	100K 1/16W	[M]
R887	ERJ3GEYJ223V	22K 1/16W	[M]
R888	ERJ3GEYJ223V	22K 1/16W	[M]
R889	ERJ3GEYJ102V	1K 1/16W	[M]
R901	D0GB101JA002	100 1/16W	[M]
R902	D0GB101JA002	100 1/16W	[M]
R903	D0GB101JA002	100 1/16W	[M]
R904	ERJ3GEYJ473V	47K 1/16W	[M]
R905	D0GB101JA002	100 1/16W	[M]
R906	D0GB101JA002	100 1/16W	[M]
R907	D0GB101JA002	100 1/16W	[M]
R908	D0GB101JA002	100 1/16W	[M]
R909	D0GB101JA002	100 1/16W	[M]
R911	ERJ3GEYJ102V	1K 1/16W	[M]
R912	D0GB101JA002	100 1/16W	[M]
R913	D0GB101JA002	100 1/16W	[M]
R914	D0GB101JA002	100 1/16W	[M]
R915	ERJ3GEYJ221V	220 1/16W	[M]
R916	ERJ3GEYJ221V	220 1/16W	[M]
R917	D0GB101JA002	100 1/16W	[M]
R918	ERJ3GEYJ221V	220 1/16W	[M]
R921	D0GB122JA019	1.2K 1/16W	[M]
R922	ERJ3GEYJ182V	1.8K 1/16W	[M]
R923	ERJ3GEYJ222V	2.2K 1/16W	[M]
R924	D0GB272JA002	2.7K 1/16W	[M]
R925	ERJ3GEYJ472V	4.7K 1/16W	[M]
R926	ERJ3GEYJ682V	6.8K 1/16W	[M]
R927	ERJ3GEYJ103V	10K 1/16W	[M]
R928	D0GB151JA008	150 1/16W	[M]
R929	D0GB151JA008	150 1/16W	[M]
R930	D0GB151JA008	150 1/16W	[M]
R931	D0GB151JA008	150 1/16W	[M]
R932	D0GB151JA008	150 1/16W	[M]
R933	D0GB151JA008	150 1/16W	[M]
R934	D0GB151JA008	150 1/16W	[M]
R935	D0GB151JA008	150 1/16W	[M]
R936	D0GB151JA008	150 1/16W	[M]
R937	D0GB151JA008	150 1/16W	[M]
R938	D0GB121JA002	120 1/16W	[M]
R942	ERJ3GEYJ331V	330 1/16W	[M]
R943	ERJ3GEYJ331V	330 1/16W	[M]
R944	ERJ3GEYJ331V	330 1/16W	[M]
R945	ERJ3GEYJ102V	1K 1/16W	[M]
R946	ERJ3GEYJ102V	1K 1/16W	[M]
R947	ERJ3GEYJ331V	330 1/16W	[M]
R952	D0GB151JA008	150 1/16W	[M]
R955	D0GB151JA008	150 1/16W	[M]
R956	D0GB151JA008	150 1/16W	[M]
R957	D0GB121JA002	120 1/16W	[M]
R958	D0GB101JA002	100 1/16W	[M]
R959	D0GB121JA002	120 1/16W	[M]
R960	ERJ3GEYJ472V	4.7K 1/16W	[M]
R961	ERJ3GEYJ682V	6.8K 1/16W	[M]
R962	ERJ3GEYJ103V	10K 1/16W	[M]
R963	ERJ3GEYJ223V	22K 1/16W	[M]
R964	D0GB271JA002	270 1/16W	[M]
R965	D0GB271JA002	270 1/16W	[M]
R971	ERJ3GEYJ182V	1.8K 1/16W	[M]
R972	ERDS2TJ821T	820 1/4W	[M]
R972	ERJ3GEYJ222V	2.2K 1/16W	[M]
R973	D0GB272JA002	2.7K 1/16W	[M]
R973	ERDS2TJ393T	39K 1/4W	[M]
R995	D0GB101JA002	100 1/16W	[M]
R997	ERJ3GEYJ103V	10K 1/16W	[M]
R998	D0GB821JA002	820 1/16W	[M]
R1101	ERJ3GEYJ270V	27 1/16W	[M]
R1103	D0GB183JA002	18K 1/16W	[M]
R1104	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1105	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1106	ERJ3GEYJ104V	100K 1/16W	[M]
R1107	ERJ3GEYJ102V	1K 1/16W	[M]
R1109	ERJ3GEYJ102V	1K 1/16W	[M]
R1110	D0GB333JA002	33K 1/16W	[M]
R1201	ERJ3GEYJ270V	27 1/16W	[M]
R1203	D0GB183JA002	18K 1/16W	[M]
R1204	ERJ3GEYJ103V	10K 1/16W	[M]
R1205	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1206	ERJ3GEYJ104V	100K 1/16W	[M]
R1207	ERJ3GEYJ102V	1K 1/16W	[M]
R1209	ERJ3GEYJ102V	1K 1/16W	[M]
R1210	D0GB333JA002	33K 1/16W	[M]
R1302	ERJ3GEYJ221V	220 1/16W	[M]
R1303	D0GB475JA008	4.7 1/16W	[M]
R1304	ERJ3GEYJ223V	22K 1/16W	[M]
R1305	ERJ3GEYJ103V	10K 1/16W	[M]
R1306	ERJ3GEYJ103V	10K 1/16W	[M]
R1307	ERD25FVJ101T	100 1/4W	[M]
R1308	ERD25FVJ101T	100 1/4W	[M]
R1309	ERD25FVJ102T	1K 1/4W	[M]
R1310	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1313	ERJ3GEYJ103V	10K 1/16W	[M]
R1314	ERJ3GEYJ102V	1K 1/16W	[M]
R1315	ERJ3GEYJ473V	47K 1/16W	[M]
R1316	ERJ3GEYJ102V	1K 1/16W	[M]
R1317	ERJ3GEYJ473V	47K 1/16W	[M]
R1318	ERJ3GEYJ103V	10K 1/16W	[M]
R1319	ERJ3GEYJ123V	12K 1/16W	[M]
R1320	ERJ3GEYJ104V	100K 1/16W	[M]
R1321	ERJ3GEYJ470V	47 1/16W	[M]
R1322	ERJ3GEYJ823V	82K 1/16W	[M]
R1323	D0GB332JA002	3.3K 1/16W	[M]
R1324	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1326	ERJ3GEYJ822V	8.2K 1/16W	[M]
R1327	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1328	ERJ3GEYJ153V	15K 1/16W	[M]
R1329	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1330	ERD2FCVJ4R7T	4.7 1/4W	[M] ⚠
R1331	ERJ3GEYJ103V	10K 1/16W	[M]
R1332	ERJ3GEYJ103V	10K 1/16W	[M]
R1334	ERJ3GEYJ223V	22K 1/16W	[M]
R1335	D0GB152JA002	1.5K 1/16W	[M]
R1336	D0GB152JA002	1.5K 1/16W	[M]
R1337	ERJ3GEYJ103V	10K 1/16W	[M]
R1338	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1341	ERJ3GEYJ471V	470 1/16W	[M]
R1342	ERJ3GEYJ473V	47K 1/16W	[M]
R1343	D0GB332JA002	3.3K 1/16W	[M]
R1344	D0GB273JA002	27K 1/16W	[M]
R1345	ERJ3GEYJ102V	1K 1/16W	[M]
R1371	ERJ3GEYJ223V	22K 1/16W	[M]
R1372	ERJ3GEYJ472V	4.7K 1/16W	[M]
R1373	ERJ3GEYJ222V	2.2K 1/16W	[M]
R1374	ERJ3GEYJ471V	470 1/16W	[M]
R1375	D0GB1R0JA002	1 1/16W	[M]
R1375	ERD25FVJ101T	100 1/4W	[M]
R1376	ERJ3GEYJ222V	2.2K 1/16W	[M]
R2001	ERJ3GEYJ102V	1K 1/16W	[M]
R2011	D0GB332JA002	3.3K 1/16W	[M]
R2012	D0GB563JA002	56K 1/16W	[M]
R2013	ERJ3GEY0R00V	0 1/16W	[M]
R2014	D0GB332JA002	3.3K 1/16W	[M]
R2015	ERJ3GEYJ223V	22K 1/16W	[M]
R2016	ERJ3GEY0R00V	0 1/16W	[M]
R2017	D0GB332JA002	3.3K 1/16W	[M]
R2018	ERJ3GEYJ223V	22K 1/16W	[M]
R2019	D0GB332JA002	3.3K 1/16W	[M]
R2020	ERJ3GEYJ223V	22K 1/16W	[M]
R2021	D0GB332JA002	3.3K 1/16W	[M]
R2022	ERJ3GEYJ123V	12K 1/16W	[M]
R2023	D0GB332JA002	3.3K 1/16W	[M]
R2024	ERJ3GEYJ123V	12K 1/16W	[M]
R2026	ERJ3GEYJ473V	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R2028	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2029	ERJ3GEYJ472V	4.7K 1/16W	[M]
R2030	ERJ3GEYJ103V	10K 1/16W	[M]
R2031	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2032	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2033	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2034	D0GB183JA002	18K 1/16W	[M]
R2035	ERJ3GEYJ822V	8.2K 1/16W	[M]
R2036	ERJ3GEYJ682V	6.8K 1/16W	[M]
R2037	D0GB333JA002	33K 1/16W	[M]
R2038	ERJ3GEYJ102V	1K 1/16W	[M]
R2040	ERJ3GEY0R00V	0 1/16W	[M]
R2041	ERJ3GEYJ470V	47 1/16W	[M]
R2043	ERJ3GEYJ104V	100K 1/16W	[M]
R2044	ERJ3GEYJ104V	100K 1/16W	[M]
R2047	ERJ3GEYJ104V	100K 1/16W	[M]
R2048	ERJ3GEYJ104V	100K 1/16W	[M]
R2051	ERJ3GEYJ104V	100K 1/16W	[M]
R2061	ERJ3GEYJ330V	33 1/16W	[M]
R2502	ERJ3GEYJ153V	15K 1/16W	[M]
R2503	ERJ3GEYJ153V	15K 1/16W	[M]
R2504	ERJ3GEYJ823V	82K 1/16W	[M]
R2505	ERJ3GEYJ823V	82K 1/16W	[M]
R2507	D0GF6R8JA017	6.8 1/8W	[M]
R3001	D0GB220JA002	22 1/16W	[M]
R3002	ERJ3GEYJ472V	4.7K 1/16W	[M]
R3003	D0GB101JA002	100 1/16W	[M]
R3004	ERJ3GEYJ221V	220 1/16W	[M]
R3005	ERJ3GEYJ473V	47K 1/16W	[M]
R3007	ERJ3GEY0R00V	0 1/16W	[M]
R3071	ERJ3GEYJ103V	10K 1/16W	[M]
R3080	ERJ3RBD752V	7.5K 3W	[M]
R3082	ERJ3RBD202V	2K 3W	[M]
R3083	ERJ3RBD132V	1.3K 3W	[M]
R3084	ERJ3RBD752V	7.5K 3W	[M]
R3085	ERJ3RBD183V	18K 3W	[M]
R3086	ERJ3RBD432V	4.3K 3W	[M]
R3087	ERJ3RBD752V	7.5K 3W	[M]
R3088	ERJ3RBD752V	7.5K 3W	[M]
R3089	ERJ3RBD332V	3.3K 3W	[M]
R3090	ERJ3RBD222V	2.2K 3W	[M]
R3101	ERJ3RED750V	75 3W	[M]
R3106	ERJ3RED750V	75 3W	[M]
R3301	ERJ3GEYJ682V	6.8K 1/16W	[M]
R3302	D0GB332JA002	3.3K 1/16W	[M]
R3304	D0HB750ZA003	75 3W	[M]
R3305	D0HB750ZA003	75 3W	[M]
R3306	D0HB750ZA003	75 3W	[M]
R3307	D0GB562JA002	5.6K 1/16W	[M]
R4211	ERJ3GEY0R00V	0 1/16W	[M]
R4213	ERJ3GEY0R00V	0 1/16W	[M]
R5203	D0GB563JA002	56K 1/16W	[M]
R5204	ERJ3GEYJ223V	22K 1/16W	[M]
R5211	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5212	ERJ12YJ270H	27 1/2W	[M]
R5213	ERJ3GEYJ473V	47K 1/16W	[M]
R5214	ERJ3GEYJ223V	22K 1/16W	[M]
R5215	ERJ3GEYJ2R2V	2.2 1/16W	[M]
R5216	ERJ12YJ270H	27 1/2W	[M]
R5217	ERJ3GEYJ473V	47K 1/16W	[M]
R5221	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5222	ERJ3GEYJ822V	8.2K 1/16W	[M]
R5232	ERJ3RBD123V	12K 3W	[M]
R5235	D0GB105JA002	1M 1/16W	[M]
R5236	ERJ3GEY0R00V	0 1/16W	[M]
R5252	ERJ3GEYJ102V	1K 1/16W	[M]
R6201	ERJ3GEYJ103V	10K 1/16W	[M]
R6205	ERJ3GEYJ102V	1K 1/16W	[M]
R6206	ERJ3GEYJ103V	10K 1/16W	[M]
R6301	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6303	ERJ3GEYJ472V	4.7K 1/16W	[M]
R6512	ERJ3RBD331V	330 3W	[M]
R6513	ERJ3GEYJ103V	10K 1/16W	[M]
R6514	ERJ3GEYJ470V	47 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R6515	D0GB100JA002	10 1/16W	[M]
K2001	ERJ3GEY0R00V	0 1/16W	[M]
K3001	ERJ3GEY0R00V	0 1/16W	[M]
K3011	ERJ3GEY0R00V	0 1/16W	[M]
K3012	ERJ3GEY0R00V	0 1/16W	[M]
K3013	ERJ3GEY0R00V	0 1/16W	[M]
K3101	ERJ3GEY0R00V	0 1/16W	[M]
K3106	ERJ3GEY0R00V	0 1/16W	[M]
K3201	ERJ3GEY0R00V	0 1/16W	[M]
K4001	ERJ3GEY0R00V	0 1/16W	[M]
K4002	ERJ3GEY0R00V	0 1/16W	[M]
K4003	ERJ3GEY0R00V	0 1/16W	[M]
K4031	ERJ3GEY0R00V	0 1/16W	[M]
K6231	ERJ3GEY0R00V	0 1/16W	[M]
K6232	ERJ3GEY0R00V	0 1/16W	[M]
K6233	ERJ3GEY0R00V	0 1/16W	[M]
K6234	ERJ3GEY0R00V	0 1/16W	[M]
K6235	ERJ3GEY0R00V	0 1/16W	[M]
K6236	ERJ3GEY0R00V	0 1/16W	[M]
K6237	ERJ3GEY0R00V	0 1/16W	[M]
K6238	ERJ3GEY0R00V	0 1/16W	[M]
K6301	ERJ3GEY0R00V	0 1/16W	[M]
RA2061	EXBV4V330JV	33 1/16W	[M]
RA2501	EXBV8V473JV	47K 1/16W	[M]
RA3008	EXBV4V103JV	10K 1/16W	[M]
RA3009	EXBV4V221JV	220 1/16W	[M]
RA3010	EXBV4V221JV	220 1/16W	[M]
RA3011	EXBV4V473JV	47K 1/16W	[M]
RA5231	EXBV8V101JV	100 1/16W	[M]
RA6201	EXBV4V103JV	10K 1/16W	[M]
RA6202	EXBV4V103JV	10K 1/16W	[M]
RA6203	EXBV4V103JV	10K 1/16W	[M]
RA6204	EXBV4V103JV	10K 1/16W	[M]
RA6205	EXBV8V473JV	47K 1/16W	[M]
RA6206	EXBV4V103JV	10K 1/16W	[M]
RA6207	EXBV4V472JV	4.7K 1/16W	[M]
NJ3091	ERJ3GEY0R00V	0 1/16W	[M]
		CAPACITORS	
C1	ECEA1CKA101B	100 16V	[M]
C2	ECBT1E103ZF5	0.01 25V	[M]
C202	ECJ2VB1H223K	0.022 50V	[M]
C205	ECJ2VC1H101K	100P 50V	[M]
C206	ECJ2VC1H101K	100P 50V	[M]
C209	ECJ2VB1H102K	1000P 50V	[M]
C210	ECJ2VB1H102K	1000P 50V	[M]
C211	ECEA1HKA4R7B	4.7 50V	[M]
C212	ECEA1HKA4R7B	4.7 50V	[M]
C213	ECEA1HKA4R7B	4.7 50V	[M]
C214	ECEA1HKA4R7B	4.7 50V	[M]
C215	ECJ2VB1H681K	680P 50V	[M]
C216	ECJ2VB1H681K	680P 50V	[M]
C217	ECJ1VC1H151J	150P 50V	[M]
C218	ECJ1VC1H151J	150P 50V	[M]
C219	ECJ2VB1H103K	0.01 50V	[M]
C220	ECJ2VB1H103K	0.01 50V	[M]
C221	ECEA1HKA3R3B	3.3 50V	[M]
C224	ECJ2VB1H102K	1000P 50V	[M]
C225	ECJ2VB1H103K	0.01 50V	[M]
C226	ECJ2VB1H103K	0.01 50V	[M]
C229	F1J1E104A137	0.1 25V	[M]
C232	ECJ2VB1H102K	1000P 50V	[M]
C233	ECJ2VC1H470J	47 50V	[M]
C234	ECJ2VC1H470J	47 50V	[M]
C235	ECJ2VC1H470J	47 50V	[M]
C236	ECJ2VB1H103K	0.01 50V	[M]
C241	ECJ2ZC1H101J	100P 50V	[M]
C261	ECEA1HKA4R7B	4.7 50V	[M]
C262	ECEA1HKA4R7B	4.7 50V	[M]
C263	ECJ2VC1H101K	100P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C264	ECJ2VC1H101K	100P 50V	[M]
C265	ECJ2VC1H101K	100P 50V	[M]
C266	ECJ2VC1H101K	100P 50V	[M]
C267	ECJ2VB1H102K	1000P 50V	[M]
C268	ECJ2VB1H102K	1000P 50V	[M]
C269	ECEA1CKA100B	10 16V	[M]
C270	ECEA1CKA100B	10 16V	[M]
C271	ECJ2VB1H103K	0.01 50V	[M]
C272	ECJ2VB1H103K	0.01 50V	[M]
C273	ECEA1HKA3R3B	3.3 50V	[M]
C274	ECEA1HKA3R3B	3.3 50V	[M]
C275	ECEA1CKA220B	22 16V	[M]
C280	ECJ1VB1C563K	0.056 16V	[M]
C281	ECJ1VB1C563K	0.056 16V	[M]
C282	ECEA1HKA4R7B	4.7 50V	[M]
C283	ECEA1AKA470B	47 10V	[M]
C284	ECEA1AKA470B	47 10V	[M]
C285	F1H1C683A075	0.068 16V	[M]
C286	ECUVNA154KBV	0.15 10V	[M]
C287	ECJ2VB1H472K	4700P 50V	[M]
C288	F1H1C683A075	0.068 16V	[M]
C289	F1H1C683A075	0.068 16V	[M]
C290	ECEA1AKA330B	33 10V	[M]
C292	ECEA1HKA4R7B	4.7 50V	[M]
C293	ECJ1VB1C563K	0.056 16V	[M]
C294	ECJ1VB1C563K	0.056 16V	[M]
C301	ECJ2VC1H101K	100P 50V	[M]
C302	ECJ2VC1H101K	100P 50V	[M]
C303	ECUV1H330JCN	33P 50V	[M]
C304	ECUV1H330JCN	33P 50V	[M]
C305	ECEA1HKA010B	1 50V	[M]
C306	ECEA1HKA010B	1 50V	[M]
C307	ECEA1CKA100B	10 16V	[M]
C308	ECEA1CKA100B	10 16V	[M]
C309	ECJ2VC1H101K	100P 50V	[M]
C310	ECJ2VC1H101K	100P 50V	[M]
C311	ECJ2VB1H102K	1000P 50V	[M]
C312	ECJ2VC1H470J	47 50V	[M]
C313	ECJ2VB1H103K	0.01 50V	[M]
C314	ECJ2VB1H103K	0.01 50V	[M]
C315	ECEA1CKA100B	10 16V	[M]
C316	ECEA1HKA010B	1 50V	[M]
C318	ECEA1CKA100B	10 16V	[M]
C319	ECEA1HKA010B	1 50V	[M]
C320	ECEA1HKA010B	1 50V	[M]
C321	ECEA1HKA010B	1 50V	[M]
C322	ECEA1HKA010B	1 50V	[M]
C332	ECEA1AKN100B	10 10V	[M]
C351	ECEA1CKA330B	33 16V	[M]
C352	F1J1E104A137	0.1 25V	[M]
C353	ECEA0JKA101B	100 6.3V	[M]
C354	ECEA0JKA221B	220 6.3V	[M]
C355	ECEA1HKA2R2B	2.2 50V	[M]
C371	ECEA1HKA4R7B	4.7 50V	[M]
C381	ECJ2VB1H103K	0.01 50V	[M]
C382	ECJ2VB1H103K	0.01 50V	[M]
C383	ECEA1CKA100B	10 16V	[M]
C384	ECEA1CKA100B	10 16V	[M]
C385	ECJ2VB1H103K	0.01 50V	[M]
C386	ECJ2VB1H103K	0.01 50V	[M]
C401	ECJ2VB1E223K	0.022 25V	[M]
C441	ECJ2ZC1H101J	100P 50V	[M]
C451	ECJ2VB1H103K	0.01 50V	[M]
C452	ECJ2VB1H103K	0.01 50V	[M]
C453	ECJ2VB1E223K	0.022 25V	[M]
C456	ECJ2VB1H103K	0.01 50V	[M]
C457	ECEA0JKA470B	47 6.3V	[M]
C458	F1J1E104A137	0.1 25V	[M]
C461	ECJ2VB1H103K	0.01 50V	[M]
C462	ECJ2VB1H103K	0.01 50V	[M]
C463	ECEA0JKA470B	47 6.3V	[M]
C501	ECBT1H681KB5	680P 50V	[M]
C502	ECBT1H681KB5	680P 50V	[M]
C503	ECBT1H681KB5	680P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C504	ECBT1H681KB5	680P 50V	[M]
C505	ECBT1H681KB5	680P 50V	[M]
C506	ECBT1H681KB5	680P 50V	[M]
C507	ECBT1H180JC5	18P 50V	[M]
C508	ECBT1H180JC5	18P 50V	[M]
C509	ECBT1H220JC5	22P 50V	[M]
C510	ECBT1H220JC5	22P 50V	[M]
C511	ECBT1H220JC5	22P 50V	[M]
C512	ECBT1H220JC5	22P 50V	[M]
C513	ECBT1H473KB5	0.047 50V	[M]
C514	ECEA0JKA101B	100 6.3V	[M]
C515	ECKR2H103ZF5	0.01 500V	[M]
C516	ECKR2H103ZF5	0.01 500V	[M]
C517	ECBT1C103NS5	0.01 16V	[M]
C520	ECBT1H104KB5	0.1 50V	[M]
C521	ECBT1H473KB5	0.047 50V	[M]
C522	ECBT1H473KB5	0.047 50V	[M]
C523	ECBT1H473KB5	0.047 50V	[M]
C524	ECBT1H473KB5	0.047 50V	[M]
C525	ECBT1H473KB5	0.047 50V	[M]
C526	ECBT1H473KB5	0.047 50V	[M]
C527	ECA0JM221B	220 6.3V	[M]
C531	ECBT1H473KB5	0.047 50V	[M]
C532	ECBT1H473KB5	0.047 50V	[M]
C533	ECBT1H473KB5	0.047 50V	[M]
C534	ECBT1H473KB5	0.047 50V	[M]
C535	ECBT1H473KB5	0.047 50V	[M]
C536	ECBT1H473KB5	0.047 50V	[M]
C537	ECBT1H102KB5	1000P 50V	[M]
C538	ECBT1H102KB5	1000P 50V	[M]
C539	ECBT1H102KB5	1000P 50V	[M]
C540	ECBT1H102KB5	1000P 50V	[M]
C565	ECBT1C103NS5	0.01 16V	[M]
C566	F2A1V332A156	3300P 35V	[M] ⚠
C567	F2A1V562A157	5600P 35V	[M] ⚠
C568	F2A1V562A157	5600P 35V	[M] ⚠
C569	F2A1V332A156	3300P 35V	[M] ⚠
C570	ECQE1104KF3	0.1 100V	[M]
C571	ECQE1104KF3	0.1 100V	[M]
C572	ECBT1H102KB5	1000P 50V	[M]
C574	ECA1HM470B	47 50V	[M]
C575	ECBT1H103KB5	0.01 50V	[M]
C576	ECA1EM101B	100 25V	[M]
C577	ECBT1H103KB5	0.01 50V	[M]
C578	ECEA1AKA330B	33 10V	[M]
C579	ECEA1CKA470B	47 16V	[M]
C580	ECBT1H102KB5	1000P 50V	[M]
C581	ECEA1HKAR47B	0.47 50V	[M]
C582	ECA1EM331B	330 25V	[M]
C583	ECA1EM331B	330 25V	[M]
C584	ECA1HM101B	100 50V	[M]
C585	ECA1HM101B	100 50V	[M]
C586	ECA1JM101B	100 6.3V	[M]
C587	ECA1JM101B	100 6.3V	[M]
C588	ECKR2H102ZF5	1000P 500V	[M]
C589	ECA1HM100B	10 50V	[M]
C591	ECA1EM222B	2200 25V	[M] ⚠
C592	ECBT1H103KB5	0.01 50V	[M]
C593	RCA1CM102BT	1000P 16V	[M]
C594	RCA1CM102BT	1000P 16V	[M]
C595	ECEA1VKA4R7B	4.7 35V	[M]
C596	ECBT1H103KB5	0.01 50V	[M]
C597	ECEA1AKA470B	47 10V	[M]
C599	ECQE1104KF3	0.1 100V	[M]
C601	ECJ1VC1H101K	100P 50V	[M]
C602	ECJ1VC1H101K	100P 50V	[M]
C603	ECUVNC104KBV	0.1 16V	[M]
C604	ECUV1H561KBV	560P 50V	[M]
C605	ECUV1H561KBV	560P 50V	[M]
C606	ECUV1H561KBV	560P 50V	[M]
C607	ECUV1H561KBV	560P 50V	[M]
C610	ECUV1H561KBV	560P 50V	[M]
C612	F1H1H103A753	0.01 50V	[M]
C613	F1H1H103A753	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C614	ECEA1HKA2R2B	2.2 50V	[M]
C615	F1H1H150A797	15P 50V	[M]
C616	ECJ1VC1H180J	18P 50V	[M]
C621	ECJ1VB1H102K	1000P 50V	[M]
C622	F1H1H331A022	330P 50V	[M]
C623	ECEA0JKA101B	100 6.3V	[M]
C624	ECJ1VB1H102K	1000P 50V	[M]
C625	ECJ1VB1H102K	1000P 50V	[M]
C626	ECA0JM102B	1000P 6.3V	[M]
C627	ECJ1VB1E103K	0.01 25V	[M]
C629	ECEA1AKA220B	22 10V	[M]
C630	ECUVNC104KBV	0.1 16V	[M]
C631	ECUVNC104KBV	0.1 16V	[M]
C632	ECEA1HKA0R1B	0.1 50V	[M]
C633	ECEA1CKA100B	10 16V	[M]
C634	ECJ1VB1E103K	0.01 25V	[M]
C635	ECJ1VB1E103K	0.01 25V	[M]
C636	ECEA1HKA3R3B	3.3 50V	[M]
C637	ECEA1HKA3R3B	3.3 50V	[M]
C638	F1H1H103A753	0.01 50V	[M]
C639	ECEA1HKA3R3B	3.3 50V	[M]
C640	ECUVNE223KBV	0.022 25V	[M]
C641	ECUVNE223KBV	0.022 25V	[M]
C651	ECJ1VC1H101K	100P 50V	[M]
C652	ECJ1VC1H101K	100P 50V	[M]
C653	F1J1E104A137	0.1 25V	[M]
C673	F1H1H103A753	0.01 50V	[M]
C674	F1J1E104A137	0.1 25V	[M]
C701	ECEA1CKA100B	10 16V	[M]
C703	ECEA1CKA220B	22 16V	[M]
C704	ECJ2VB1H471K	470P 50V	[M]
C706	ECJ1VB1C103K	0.01 16V	[M]
C707	ECJ2VC1H470J	47P 50V	[M]
C708	F1J1E104A137	0.1 25V	[M]
C709	F1J1E104A137	0.1 25V	[M]
C710	ECEA1CKA100B	10 16V	[M]
C711	ECEA1CKA220B	22 16V	[M]
C713	ECJ2VB1H222K	2200P 50V	[M]
C715	ECEA1CKA220B	22 16V	[M]
C716	ECJ2VB1H222K	2200P 50V	[M]
C718	ECJ2VB1H103K	0.01 50V	[M]
C719	ECJ2VB1H103K	0.01 50V	[M]
C720	ECEA1CKA100B	10 16V	[M]
C722	ECEA1CKA100B	10 16V	[M]
C723	ECEA1CKA220B	22 16V	[M]
C724	ECJ2VB1H222K	2200P 50V	[M]
C726	ECJ2VB1H471K	470P 50V	[M]
C727	ECJ2VC1H470J	47P 50V	[M]
C728	ECJ2VC1H470J	47P 50V	[M]
C729	ECEA1CKA220B	22 16V	[M]
C730	ECEA1CKA100B	10 16V	[M]
C731	ECJ2VB1H222K	2200P 50V	[M]
C732	ECJ1VB1H102K	1000P 50V	[M]
C733	ECJ1VB1H102K	1000P 50V	[M]
C736	ECEA1CKA100B	10 16V	[M]
C739	ECUVNA105KBN	10 10V	[M]
C740	ECA1EM101B	100 25V	[M]
C741	ECEA1CKA100B	10 16V	[M]
C742	ECEA1CKA100B	10 16V	[M]
C743	ECEA1CKA100B	10 16V	[M]
C744	ECEA1CKA100B	10 16V	[M]
C748	ECJ2VB1H103K	0.01 50V	[M]
C749	ECEA1CKA220B	22 16V	[M]
C750	ECEA1CKA220B	22 16V	[M]
C757	ECJ2VB1H222K	2200P 50V	[M]
C758	ECJ2VB1H222K	2200P 50V	[M]
C759	ECUV1H221KBN	220P 50V	[M]
C760	ECUV1H221KBN	220P 50V	[M]
C761	ECJ2VB1H102K	1000P 50V	[M]
C762	ECEA1CKA100B	10 16V	[M]
C763	ECJ2VB1H102K	1000P 50V	[M]
C764	ECJ2VB1H103K	0.01 50V	[M]
C765	ECEA1AKA101B	100 10V	[M]
C766	ECJ2VB1H102K	1000P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C767	ECEA1CKA100B	10 16V	[M]
C768	ECA1AM222B	2200 10V	[M]
C769	ECUV1H221KBN	220P 50V	[M]
C774	EEUFC0J821B	820P 6.3V	[M]
C775	ECEA1AKA101B	100 10V	[M]
C779	ECA0JM102B	1000P 6.3V	[M]
C780	ECA0JM102B	1000P 6.3V	[M]
C781	ECEA1HKA3R3B	3.3 50V	[M]
C782	ECA1EM472B	4700 25V	[M] ⚠
C783	ECQE1104KF3	0.1 100V	[M]
C784	F1J1E104A137	0.1 25V	[M]
C785	ECJ2VB1H471K	470P 50V	[M]
C786	ECJ2VB1H471K	470P 50V	[M]
C788	EEUFC0J821B	820P 6.3V	[M]
C789	ECJ2VC1H470J	47P 50V	[M]
C790	ECJ2VC1H470J	47P 50V	[M]
C791	F1J1E104A137	0.1 25V	[M]
C792	F1J1E104A137	0.1 25V	[M]
C793	ECJ2VB1H471K	470P 50V	[M]
C794	ECJ2VB1H471K	470P 50V	[M]
C795	ECJ2VC1H470J	47P 50V	[M]
C796	ECJ2VC1H470J	47P 50V	[M]
C801	ECEA1HKA010B	1 50V	[M]
C802	ECEA1HKA010B	1 50V	[M]
C803	ECEA1HKA010B	1 50V	[M]
C804	ECEA1HKA010B	1 50V	[M]
C805	ECEA1HKA010B	1 50V	[M]
C806	ECEA1HKA010B	1 50V	[M]
C807	ECEA1HKA010B	1 50V	[M]
C808	ECEA1HKA010B	1 50V	[M]
C809	ECUVNA105KBN	10 10V	[M]
C810	ECJ2VB1H103K	0.01 50V	[M]
C811	ECJ2VC1H050D	5 50V	[M]
C812	ECJ2VC1H120J	12P 50V	[M]
C813	ECEA1HKA010B	1 50V	[M]
C814	ECJ2VB1H103K	0.01 50V	[M]
C815	EEAFC0J101B	100P 6.3V	[M]
C816	ECJ2VB1H222K	2200P 50V	[M]
C817	ECJ2VB1H103K	0.01 50V	[M]
C818	ECEA1HKA010B	1 50V	[M]
C819	ECJ2VB1H103K	0.01 50V	[M]
C820	ECJ2VB1H222K	2200P 50V	[M]
C821	ECJ2VB1H103K	0.01 50V	[M]
C822	ECEA0JKA470B	47 6.3V	[M]
C823	EEAFC0J101B	100P 6.3V	[M]
C824	ECEA0JKA470B	47 6.3V	[M]
C825	ECEA0JKA101B	100 6.3V	[M]
C826	ECJ2VB1H103K	0.01 50V	[M]
C827	ECEA1HKA010B	1 50V	[M]
C828	ECJ2VB1H222K	2200P 50V	[M]
C829	ECEA1HKA010B	1 50V	[M]
C830	ECJ2VB1H222K	2200P 50V	[M]
C831	ECEA1HKA010B	1 50V	[M]
C832	ECEA1HKA010B	1 50V	[M]
C833	ECUVNA105KBN	10 10V	[M]
C835	ECJ2VB1H103K	0.01 50V	[M]
C836	ECJ2VB1E223K	0.022 25V	[M]
C837	ECUVNA105KBN	10 10V	[M]
C838	ECUVNA105KBN	10 10V	[M]
C839	ECUVNA105KBN	10 10V	[M]
C840	ECEA1AKA221Q	220 10V	[M]
C841	ECJ2VB1E223K	0.022 25V	[M]
C842	ECJ2VB1H103K	0.01 50V	[M]
C843	ECEA1HKA4R7B	4.7 50V	[M]
C844	ECEA1HKA4R7B	4.7 50V	[M]
C845	ECEA0JKA101B	100 6.3V	[M]
C846	ECEA1HKA2R2B	2.2 50V	[M]
C847	ECEA1HKA2R2B	2.2 50V	[M]
C848	ECUV1H331KBN	330P 50V	[M]
C850	ECEA1HKA010B	1 50V	[M]
C851	ECEA1CKA100B	10 16V	[M]
C852	ECEA1CKA100B	10 16V	[M]
C853	ECJ1VB1H221K	220P 50V	[M]
C854	ECEA1CKA100B	10 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C855	ECEA1HKA010B	1 50V	[M]
C856	ECEA1CKA100B	10 16V	[M]
C857	ECEA1CKA100B	10 16V	[M]
C858	ECJ1VB1H221K	220P 50V	[M]
C859	ECEA1HKA2R2B	2.2 50V	[M]
C860	ECJ2VC1H470J	47P 50V	[M]
C861	ECJ2VC1H470J	47P 50V	[M]
C862	F1J1E104A137	0.1 25V	[M]
C863	F1H1H103A753	0.01 50V	[M]
C864	ECJ1VC1H101K	100P 50V	[M]
C865	ECEA1HKA3R3B	3.3 50V	[M]
C867	ECEA1AKA330B	33 10V	[M]
C868	ECEA1HKAR15B	0.15 50V	[M]
C869	ECEA1CKA100B	10 16V	[M]
C870	ECEA1HKA010B	1 50V	[M]
C871	ECEA1HKA3R3B	3.3 50V	[M]
C872	ECJ1VC1H101K	100P 50V	[M]
C874	ECEA1AKA330B	33 10V	[M]
C875	ECEA1HKAR15B	0.15 50V	[M]
C876	ECEA1CKA100B	10 16V	[M]
C877	F1J1E104A137	0.1 25V	[M]
C878	ECEA1HKA010B	1 50V	[M]
C884	F1J1E104A137	0.1 25V	[M]
C885	F1J1E104A137	0.1 25V	[M]
C886	ECJ2VC1H470J	47P 50V	[M]
C887	ECEA1CKA100B	10 16V	[M]
C889	ECJ2VB1H223K	0.022 50V	[M]
C890	ECJ2VB1H223K	0.022 50V	[M]
C945	ECEA1HKA010B	1 50V	[M]
C1101	ECA1HAK010XB	1 50V	[M]
C1102	ECJ1VB1H102K	1000P 50V	[M]
C1103	ECA1CAK101XB	100 16V	[M]
C1104	ECUVNC333KBV	0.033 16V	[M]
C1105	ECJ1VB1H681K	680P 50V	[M]
C1106	ECA1HAK3R3XB	3.3 50V	[M]
C1107	ECUV1H152KBV	1500P 50V	[M]
C1108	ECA1CAK100XB	10 16V	[M]
C1109	ECA1HAK3R3XB	3.3 50V	[M]
C1201	ECA1HAK010XB	1 50V	[M]
C1202	ECJ1VB1H102K	1000P 50V	[M]
C1203	ECA1CAK101XB	100 16V	[M]
C1204	ECUVNC333KBV	0.033 16V	[M]
C1205	ECJ1VB1H681K	680P 50V	[M]
C1206	ECA1HAK3R3XB	3.3 50V	[M]
C1207	ECUV1H152KBV	1500P 50V	[M]
C1208	ECA1HAK3R3XB	3.3 50V	[M]
C1209	ECA1HAK3R3XB	3.3 50V	[M]
C1301	ECEA1HKA0R1B	0.1 50V	[M]
C1302	ECUVNC333KBV	0.033 16V	[M]
C1303	ECUVNC333KBV	0.033 16V	[M]
C1304	ECEA1HKA4R7B	4.7 50V	[M]
C1305	ECA1CAK330XB	33 16V	[M]
C1306	ECA1CAK100XB	10 16V	[M]
C1307	ECA1AAK221XQ	220 10V	[M]
C1308	ECA1CAK220XB	22 16V	[M]
C1310	ECA1HAK0R1XB	0.1 50V	[M]
C1311	ECA1CAK470XB	47 16V	[M]
C1312	ECJ1VB1H332K	3300P 50V	[M]
C1314	ECJ1VB1H222K	2200P 50V	[M]
C1315	ECJ1VB1H222K	2200P 50V	[M]
C1316	ECJ1VB1H102K	1000P 50V	[M]
C1317	ECJ1VB1H102K	1000P 50V	[M]
C1318	ECQV1H473JL3	0.047 50V	[M]
C1319	ECA1CAK101XB	100 16V	[M]
C1320	ECA1HAK010XB	1 50V	[M]
C1321	F0A2A472A015	4700P 100V	[M]
C1322	ECQP2A102JZT	1000P 100V	[M]
C1323	ECEA1HKN010B	1 50V	[M]
C1324	ECA1CAK470XB	47 16V	[M]
C1325	ECJ1VB1E103K	0.01 25V	[M]
C1326	ECA1CAK100XB	10 16V	[M]
C1371	ECJ1VB1H103K	0.01 50V	[M]
C1372	ECJ2VB1E223K	0.022 25V	[M]
C1373	ECJ2VB1E223K	0.022 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C2001	ECEV0JA331P	330 6.3V	[M]
C2002	EEVHB0J101P	100P 6.3V	[M]
C2003	ECUVNC104ZFV	0.1 16V	[M]
C2004	ECUVNC104ZFV	0.1 16V	[M]
C2005	ECUVNC104ZFV	0.1 16V	[M]
C2006	ECUVNC104ZFV	0.1 16V	[M]
C2007	ECUVNC104ZFV	0.1 16V	[M]
C2008	ECUVNC104ZFV	0.1 16V	[M]
C2009	ECUVNC104ZFV	0.1 16V	[M]
C2010	ECUVNC104ZFV	0.1 16V	[M]
C2011	ECUVNC104ZFV	0.1 16V	[M]
C2015	ECUVNC104ZFV	0.1 16V	[M]
C2021	F1H1H822A022	8200P 50V	[M]
C2022	F1H1C393A089	0.039 16V	[M]
C2023	ECJ1VB1H681K	680P 50V	[M]
C2024	ECJ1VB1H681K	680P 50V	[M]
C2025	F1H1C473A088	0.047 16V	[M]
C2026	F1H1C473A088	0.047 16V	[M]
C2027	ECJ1VB1H332K	3300P 50V	[M]
C2028	ECUV1H152KBV	1500P 50V	[M]
C2029	ECUV1H152KBV	1500P 50V	[M]
C2030	ECJ1VB1H471K	470P 50V	[M]
C2031	ECJ1VB1H332K	3300P 50V	[M]
C2032	F1H1C473A088	0.047 16V	[M]
C2033	ECJ1VB1H332K	3300P 50V	[M]
C2034	ECUVNC104KBV	0.1 16V	[M]
C2035	F1H1C473A088	0.047 16V	[M]
C2036	ECJ1VB1H332K	3300P 50V	[M]
C2037	ECJ1VB1H102K	1000P 50V	[M]
C2038	F1H1A474A025	0.47 10V	[M]
C2039	ECJ1VB1H103K	0.01 50V	[M]
C2041	F1J1A2250007	2.2 10V	[M]
C2042	ECUVNC104KBV	0.1 16V	[M]
C2043	ECUVNC104KBV	0.1 16V	[M]
C2044	ECUVNC104ZFV	0.1 16V	[M]
C2045	ECUV1H101JCV	100 50V	[M]
C2046	ECJ1VB1H332K	3300P 50V	[M]
C2047	ECUVNC104KBV	0.1 16V	[M]
C2048	ECJ1VB1H332K	3300P 50V	[M]
C2051	ECJ1VB1H103K	0.01 50V	[M]
C2052	ECJ1VB1H102K	1000P 50V	[M]
C2061	RCST1AY106RE	10 10V	[M]
C2062	ECUVNC104ZFV	0.1 16V	[M]
C2063	ECUVNC104ZFV	0.1 16V	[M]
C2064	ECUVNC104ZFV	0.1 16V	[M]
C2501	EEVFC0J221P	220P 6.3V	[M]
C2502	ECEV1CA101WP	100 16V	[M]
C2503	ECEV1CA220WR	22 16V	[M]
C2504	ECUVNC104ZFV	0.1 16V	[M]
C2505	ECUVNC104ZFV	0.1 16V	[M]
C2506	ECUVNC104ZFV	0.1 16V	[M]
C2507	ECUVNC104ZFV	0.1 16V	[M]
C2508	ECUVNC104ZFV	0.1 16V	[M]
C2509	EEVFC1C100R	10P 16V	[M]
C2511	ECUVNC104ZFV	0.1 16V	[M]
C2512	ECUVNC104ZFV	0.1 16V	[M]
C2513	ECUVNC104ZFV	0.1 16V	[M]
C3001	ECEV0JA331P	330 6.3V	[M]
C3002	EEVFC0J221P	220P 6.3V	[M]
C3004	ECJ1VF1A105Z	1 10V	[M]
C3005	ECUVNC104ZFV	0.1 16V	[M]
C3006	ECUVNC104ZFV	0.1 16V	[M]
C3007	ECJ1VF1A105Z	1 10V	[M]
C3008	ECJ1VF1A105Z	1 10V	[M]
C3009	ECUVNC104ZFV	0.1 16V	[M]
C3010	ECUVNC104ZFV	0.1 16V	[M]
C3011	ECUVNC104ZFV	0.1 16V	[M]
C3012	ECJ1VF1A105Z	1 10V	[M]
C3013	ECJ1VF1A105Z	1 10V	[M]
C3014	ECUVNC104ZFV	0.1 16V	[M]
C3015	ECUVNC104ZFV	0.1 16V	[M]
C3016	ECJ1VF1A105Z	1 10V	[M]
C3017	ECUVNC104ZFV	0.1 16V	[M]
C3018	ECUVNC104ZFV	0.1 16V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C3019	ECJ1VF1A105Z	1 10V	[M]
C3020	ECJ1VF1A105Z	1 10V	[M]
C3021	ECUVNC104ZFV	0.1 16V	[M]
C3022	ECUVNC104ZFV	0.1 16V	[M]
C3023	ECUVNC104ZFV	0.1 16V	[M]
C3024	ECJ1VF1A105Z	1 10V	[M]
C3025	ECUVNC104ZFV	0.1 16V	[M]
C3026	ECJ1VF1A105Z	1 10V	[M]
C3027	ECUVNC104ZFV	0.1 16V	[M]
C3028	ECUVNC104ZFV	0.1 16V	[M]
C3029	ECUVNC104ZFV	0.1 16V	[M]
C3030	ECJ1VF1A105Z	1 10V	[M]
C3031	ECUVNC104ZFV	0.1 16V	[M]
C3032	ECUVNC104ZFV	0.1 16V	[M]
C3033	ECUVNC104ZFV	0.1 16V	[M]
C3034	ECUVNC104ZFV	0.1 16V	[M]
C3035	ECUVNC104ZFV	0.1 16V	[M]
C3036	ECJ1VC1H220J	22P 50V	[M]
C3041	ECUVNC104ZFV	0.1 16V	[M]
C3042	ECUVNC104ZFV	0.1 16V	[M]
C3043	ECUVNC104ZFV	0.1 16V	[M]
C3044	ECUVNC104ZFV	0.1 16V	[M]
C3045	ECUVNC104ZFV	0.1 16V	[M]
C3060	ECUVNC104ZFV	0.1 16V	[M]
C3061	ECUVNC104ZFV	0.1 16V	[M]
C3062	ECUVNC104ZFV	0.1 16V	[M]
C3063	ECUVNC104ZFV	0.1 16V	[M]
C3064	ECUVNC104ZFV	0.1 16V	[M]
C3065	ECJ1VF1A105Z	1 10V	[M]
C3066	ECUVNC104ZFV	0.1 16V	[M]
C3080	ECEV0JA331P	330 6.3V	[M]
C3081	ECUVNC104ZFV	0.1 16V	[M]
C3082	ECUVNC104ZFV	0.1 16V	[M]
C3083	F1H0J1050013	10 6.3V	[M]
C3084	F1H0J1050013	10 6.3V	[M]
C3085	F1H0J1050013	10 6.3V	[M]
C3086	F1H0J1050013	10 6.3V	[M]
C3087	ECUVNC104ZFV	0.1 16V	[M]
C3088	ECUVNC104ZFV	0.1 16V	[M]
C3089	ECUVNC104ZFV	0.1 16V	[M]
C3209	ECUVNC104ZFV	0.1 16V	[M]
C3210	ECUVNC104ZFV	0.1 16V	[M]
C3215	ECUVNC104ZFV	0.1 16V	[M]
C3301	EEVHB0J101P	100P 6.3V	[M]
C3302	ECUVNC104ZFV	0.1 16V	[M]
C3303	EEVHB1C100R	10P 16V	[M]
C3305	ECJ1VB1H103K	0.01 50V	[M]
C3307	ECJ1VB1H103K	0.01 50V	[M]
C3308	ECJ1VC1H150J	15P 50V	[M]
C4207	ECUVNC104ZFV	0.1 16V	[M]
C4208	ECUVNC104ZFV	0.1 16V	[M]
C4209	ECUVNC104ZFV	0.1 16V	[M]
C4210	ECUVNC104ZFV	0.1 16V	[M]
C4213	RCST1AY106RE	10 10V	[M]
C4215	ECUVNC104ZFV	0.1 16V	[M]

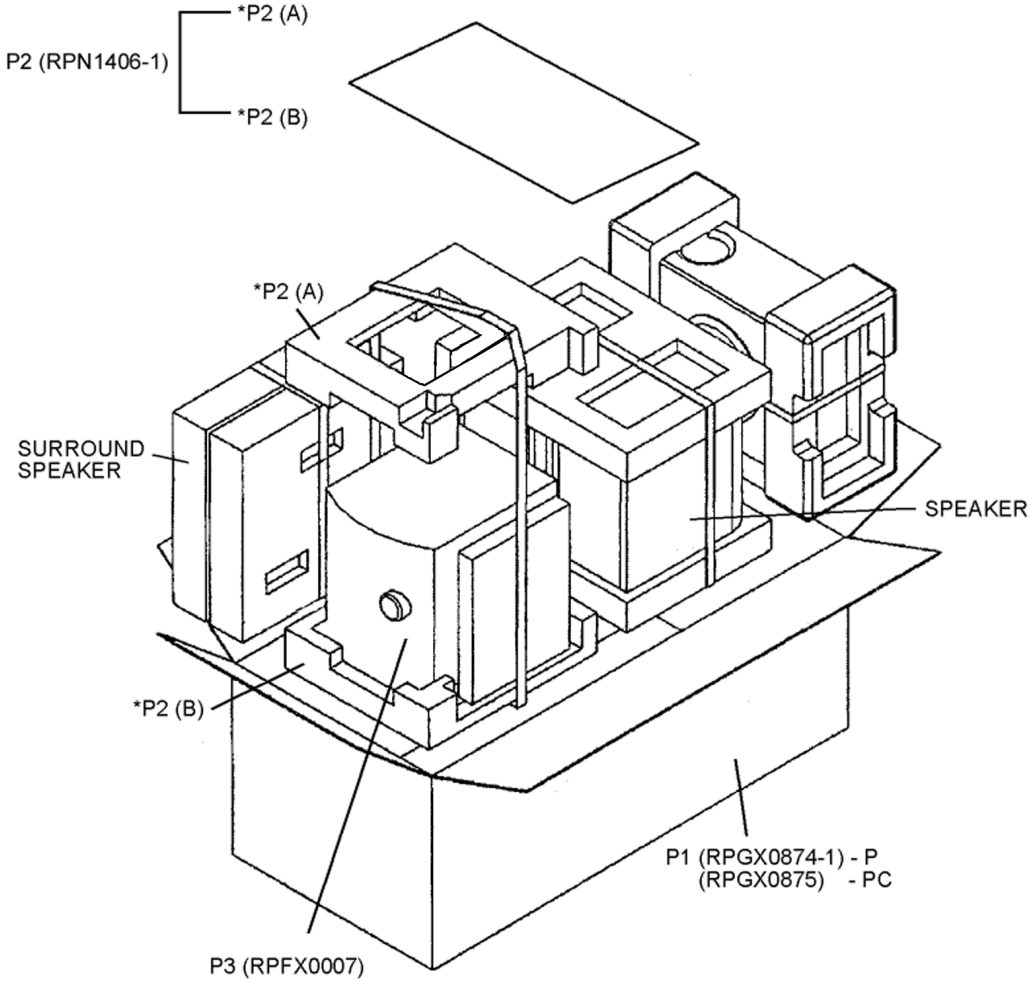
Ref. No.	Part No.	Part Name & Description	Remarks
C4216	EEVHB0J101P	100P 6.3V	[M]
C4218	ECUVNC104ZFV	0.1 16V	[M]
C4222	ECEV0JA331P	330 6.3V	[M]
C5201	EEVHB1C100R	10P 16V	[M]
C5202	EEVHB1C100R	10P 16V	[M]
C5203	ECUVNC104ZFV	0.1 16V	[M]
C5204	ECUVNC104ZFV	0.1 16V	[M]
C5205	ECJ1VC1H102J	1000P 50V	[M]
C5206	ECJ1VC1H102J	1000P 50V	[M]
C5207	ECJ1VC1H102J	1000P 50V	[M]
C5208	ECJ1VC1H102J	1000P 50V	[M]
C5211	EEVHB0J470R	47 6.3V	[M]
C5215	EEVHB0J470R	47 6.3V	[M]
C5221	ECUVNC104ZFV	0.1 16V	[M]
C5223	ECUVNC104ZFV	0.1 16V	[M]
C5224	ECUVNC104KBV	0.1 16V	[M]
C5225	ECUVNC104KBV	0.1 16V	[M]
C5231	ECUV1H101JCV	100P 50V	[M]
C5232	ECUVNC104ZFV	0.1 16V	[M]
C5233	ECUVNC104ZFV	0.1 16V	[M]
C5234	ECJ1VB1H222K	2200P 50V	[M]
C5235	F1H1H391A765	390P 50V	[M]
C5236	ECJ1VC1H102J	1000P 50V	[M]
C5237	ECUVNC104KBV	0.1 16V	[M]
C5238	F1H1A2240004	0.22 10V	[M]
C5239	ECUVNC104KBV	0.1 16V	[M]
C5240	F1H1H561A765	560P 50V	[M]
C5242	ECJ1VB1H472K	4700P 50V	[M]
C5251	ECUVNC104ZFV	0.1 16V	[M]
C5252	VCS1AS106R	10 10V	[M]
C5253	ERJ3GEYJ472V	4700P 1/16W	[M]
C6201	EEVHB0J330R	33 6.3V	[M]
C6202	ECUVNC104ZFV	0.1 16V	[M]
C6203	ECUVNC104ZFV	0.1 16V	[M]
C6204	ECUVNC104ZFV	0.1 16V	[M]
C6205	ECUVNC104ZFV	0.1 16V	[M]
C6206	ECUVNC104ZFV	0.1 16V	[M]
C6211	ECUV1H101JCV	100P 50V	[M]
C6221	ECUVNC104ZFV	0.1 16V	[M]
C6222	ECUVNC104ZFV	0.1 16V	[M]
C6251	ECUVNC104KBV	0.1 16V	[M]
C6253	RCST1AY106RE	10 10V	[M]
C6257	EEVHB0J101P	100P 6.3V	[M]
C6301	ECUVNC104ZFV	0.1 16V	[M]
C6302	ECUVNC104KBV	0.1 16V	[M]
C6303	ECUVNC104ZFV	0.1 16V	[M]
C6304	ECUVNC104ZFV	0.1 16V	[M]
C6305	ECUVNC104ZFV	0.1 16V	[M]
C6501	EEVHB0J330R	33 6.3V	[M]
C6502	EEVHB0J330R	33 6.3V	[M]
C6503	ECUVNC104ZFV	0.1 16V	[M]
C6504	ECUVNC104ZFV	0.1 16V	[M]
C6505	ECUVNC104ZFV	0.1 16V	[M]
C6511	ECJ1VC1H150J	15P 50V	[M]
C6512	ECJ1VC1H150J	15P 50V	[M]

17.5. Packing Materials & Accessories Parts List

Ref. No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS	
P1	RPGX0874-1	PACKING CASE	[M]P
P1	RPGX0875	PACKING CASE	[M]PC
P2	RPN1406-1	POLYFOAM	[M]
P3	RPFX0007	MIRAMAT BAG	[M]
		ACCESSORIES	

Ref. No.	Part No.	Part Name & Description	Remarks
A1	N2QAJB000053	REMOTE CONTROLLER	[M]
A1-1	RKK-SA958WK	R/C BATTERY COVER	[M]
A2	RJA0065-1D	AC CORD	[M] ⚠
A3	RQT6345-1P	O/I BOOK	[M]
A3	RQT6347-C	O/I BOOK	[M]PC
A4	RSA0006-J	FM ANTENNA	[M]
A5	RSA0033	AM LOOP ANTENNA	[M]
A6	RJL1P016B15A	VIDEO CABLE	[M]

17.6. Packaging



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